AMERICAN RAILROAD JOURNAL

# AMERICAN

Plale &

# RAILROAD JOURNAL.

STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

As the second of the second of

SATURDAY, SEPTEMBER 11, 1858.

Second Quarto Series, Vol. XIV., No. 37 .-- Whole No. 1,169, Vol. XXXI.

ESTABLISHED IN 1831.

-----

LIGHTNING RODS

NEW-YORK:

PUBLISHED WEEK\_Y, BY

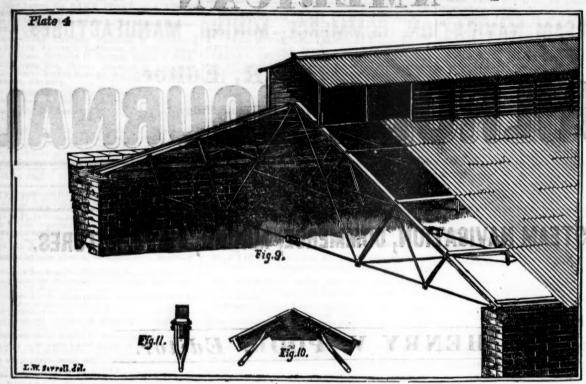
JOHN H. SCHULTZ & CO.

Front Ro m, Third Floor,

No 9 Spruce Street. I JAH29AM

No. 57 Beekman st., NEW YORK.

# ROOFING.



THE subscribers, monufacturers and importers of PATENT erected in the New York Navy Yard, also to that of the New Action of Pire-proof Buildings and Roofs, to this mate-construction of Pire-proof Buildings and Roofs, to the Buildings and Roofs, to the mate-construction of Pire-proof Buildings and Roofs, to the Buildings and Roofs, to the mate-construction of Pire-proof Buildings and Roofs, to the Buildings and Roo

Plain sheets are prepared to lay on boarded roofs (such as have had tin coverings) by making a flute on the side so as to faston to a wood roll, reaching from ridge to caves and piaced between each tier of sheets, see figs. 6 and 8 below. The transverse joints are secured as shown by fig. 7.

Por A

N

the div

tran

mer

mai wou

ance vice The position plift dept such est pence man duct men

is pr

Estimates and designs for Buildings and Roofs, &c., &c.



TELEGRAPH AND FENCING WIRE, BLACK SHEET IRON SHIPS' IRON WORK, LIGHTNING RODS.



MARSHALL LEFFERTS & BROTHER, No. 57 Beekman st., NEW YORK.

# AMERICAN RAILROAD JOURNA

# STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

## HENRY V. POOR, Editor.

#### ESTABLISHED IN 1831.

PUBLISHED WEEKLY BY J. H. SCHULTZ & CO., AT NO. 9 SPRUCE ST., NEW YORK, AT FIVE DOLLARS PER ANNUM.

SECOND QUARTO SERIES, Vol. XIV., No. 87.]

SATURDAY, SEPTEMBER 11, 1858.

[WHOLE No. 1,169, Vol. XXXI.

MESSES. ALGAR & STREET, No. 11 Clements Lane, them steadily increasing—thus reversing the re- ence between the two countries. The long passen-Lombard Street, London, are the authorised European Agents for the Journal.

#### PRINCIPAL CONTENTS.

English and American Railroads Compared577
Pittsburg, Ft. Wayne and Chicago Railroad 578
Detroit and Milwaukee Railway578
North-Eastern (S. C.) Railroad 579
Journal of Railroad Law
Spartanburg and Union Railroad
Eaton and Hamilton Railroad
Accidents on American Railroads
Muscogee Railroad 585
Iron Bridges

#### American Railroad Journal.

PUBLISHED BY J. H. SCHULTZ & CO. No. 9 SPRUCE ST.

New York, Saturday, September 11, 1858.

English and American Railroads Compared (Editorial Correspondence of the R. R. JOURNAL.) London, August 18th, 1858.

If railroads could be worked by their owners, we should soon cease to hear complaints about their unproductiveness. Let any railroad become the property of ten practical men and let them divide among themselves the various departments of service-one taking charge of track-another of the goods traffic-another of the passenger transportation-another of the locomotive department, and so on, does any one doubt that reform and improvement would be instantly seen in its management and income? The proper motive would at once be applied for the exercise of vigilance, energy and economy in each branch of service. All would be managed to a common end. The attention of every person having a responsible position would be constantly directed toward simplifying, and reducing the cost of carrying on his department. The expenses of railroads under such a system would soon be reduced to the lowest possible minimum, just as, after a long experience and training, they are in well conducted manufacturing establishments, owned and conducted by individuals. In such, a steady improvement is visible, whereby, each year, a better article is produced at less price. Do we see any such improvement in the management of our railroads?

sults obtained in all other enterprises and business a trough from which nothing can serve to extricate or put them on their right course?

In the history of railroads in this country, one would have supposed that some reformer would have risen to discover and point out the abuses which exist and the remedies for them in so striking and convincing a manner as to have carried with him the conviction and co-operation of the public, and have instituted a new era in railway history. That such a person has not appeared proves conclusively the viciousness of the existing systems of management. Do the regular establishments in this country, the army, navy, or church ever produce superior men? Seldom, or never. Yet these establishments contain the best and most cultivated minds in the country. But their duties being prescribed according to a given routine, they soon become little better than servile copyists or imitators, lose all desire and faculty to act up to their former ideals, and turn out to be little better than dead rubbish. The English thought that they were sending a very fine army to the Crimea at the commencement of the Russian war. Individually, each man sent out was a hero; but collectively, they fell a sacrifice to the incapacity of leaders who had held commissions and passed themselves off as competent in their several departments-many of them for half a century. The capacity for success grew out from the experience gained during the progress of the war, which forced the leaders to quit a routine which they had followed all their lives, to shape their actions to the exigencies of the moment, and the conditions in which they found themselves piaced. Is there not some method by which railroads can be taken out of the category of red-tapeism, by which a living principle can be introduced to take the place of prescription or habit? There is one way in which it can, and that is to supply an adequate motive to good conduct, by rewarding merit at its worth. Till this is done, railroads, wherever they may be, will drag along in their beaten tracks of dulness and routine, and become worse managed and less productive year by year.

What is peculiar to the railways of England and

ger car in use in the United States is rendered operations? Do they not seem to have fallen into necessary by its climate. There is no mode of warming the English passenger car. The latter, first class, car is more comfortable than the American first class, but to ride in it one must pay twice the average charge in the United States. The fare in second class cars in England equals just about three cents per mile. In these cars you have nothing warmer or softer than painted wood work. In fact, there is nothing but boxes with seats on two sides. The third class cars are still more uncomfortable, so as to correspond in grade and aspect to the lowest class of travelers; the average rate of fare in these is .017 cents, per mile-very nearly equal to the first class fare on some of the best roads in America. In addition to a high rate of fare, baggage is sharply looked after. For two fair-sized trunks, the traveler between Liverpool and London has to pay \$2.50 extra baggage. Traveling in England is at best twice as expensive as in America.

> Another excellence of English railroads is what is termed the fishing of the rails. In the United States one great cause of deterioration of way, and of annoyance to travelers, is the broken joint. No two rails ever being upon the same level, the head of each one receives a violent blow from the wheels, which soon abrade and destroy it. None of this concussion, with the peculiar noise caused thereby, is felt on English roads. Consequently, the rails upon them last much longer than upon American roads. While upon the latter great care is taken to give the joint a firm bearing, upon English roads the end of the rail is entirely unsupported except by the fishing bars—the ballasting not being allowed to touch this portion of the rail. I think it very doubtful whether the extreme severity of climate in the United States would permit the construction of railways in the Northern States in a similar manner. With four feet of frost in the ground, it would be a very difficult thing to keep the track in place in the winter season. In the Southern States where this objection does not exist, all the roads should make use of the fishing bars. The whole extent of the Mobile and Ohio railroad is laid with them.

With the exceptions named embracing the more On the other hand, is not the cost of operating the United States grows, chiefly, out of some differ- perfect and more costly structures, there is nothing

that particularly distinguishes the roads of the floating debt; for dividends and, to some extent, policy of the State was inaugurated—a policy of the state was inaugurated. two countries. In the construction of the locomotive, I do not know that we have anything valuable to learn from our neighbors. Some of the dif-ferences in the details of working them I shall point out in future communications.

Pittsburg, Fort Wayne and Chicago R. R. At a meeting of the stockholders of the Pitts-

burg, Fort Wayne and Chicago Railroad Company, held at Pittsburg on the first inst., the following statement was submitted :-

DR.	Dec. 31, 1857.	June 30, 1858.
Total cost of road.	\$14,048,769 75	\$14,279,703 76
Real estate'	971,521 59	960,423 48
Stocks and Bonds.	86,000 00	91,100 00
Materials on hand.	121,210 81	102,216 22
Other available as-		
sets	171,715 84	250,023 16
Due from Wm. La-		
rimer, jr	77,141 08	69,791 93
Acc'nts not avail-		
able	31,949 38	19,735 94
Coupons due July		
1, 1858		8,489 25
Coupons due from	managaren e macegare	NACCOUNT OF STREET
Jan'y 1, 1858, to		
April 1, 1859		172,865 00
Balance Income		III TA YOURSENA
Account	41,444 59	125,241 40
-tem A od: pull ald	615 559 994 90	\$16,079,590 14
Total	\$10,000,204 09	\$10,079,090 14
CR.		move due avere
Capital Stock	.\$6,230,259 25	\$6,257,039 94

Funded Debt..... 7.371.000 00 7.956.075 00 Floating Debt . . . . 1,951,875 14 1,866,475 20

Total.....\$15,553,234 39 \$16,079,590 14

The earnings of the road for six months ending June 30, 1858, as compared with the same period in 1857, are as follows:—

100 . 20	Chern ly . Olf com	1858.		1857.	
From	freight	\$297,695	22	\$327,146	44
a a	passengers transportation of	850,509	64	464,675	27
philop	mail	16,893	74	26,893	74
80 H	rent of road	28,741	94	407For	
10 15	miscellan's earn-	al ben I			
STATE OF	ings	1,817	03	744	38
HOCke 4/	rents	857	50	744 1,121	00
Trans	Total earnings		07	\$820,580	82
NAME OF STREET	*************	455,568	21	251,007	87
OF S	Net earnings	\$250,946	86	\$299,572	95

The total decrease in net earnings of the road

for the six months ending June 30, 1858, as compared with the same period in 1857, is \$58,626 09.

The Directors' Report states that a contract has been entered into with the Pennsylvania Railroad Company, to furnish all the chairs, spikes, frogs and switches necessary to complete the road into Chicago. Over four thousand tons of the rails have been already delivered and carried out upon the road. It is expected that the last rail will be laid by the close of October. The Report concludes thus :

"The earnings of the road for the first six months of the year have been small-too small for the capital invested-and if we had no greater promise from a completed road, too small for the hazard of the enterprise. It is hardly necessary to repeat to you the causes which have produced an unsatisfactory result, and to assure you that they are but temporary. The road must be then and now the first station. Of all the money liams and Dean Richmond, of Buffalo, and, if not completed, and on a solid basis of capital, and not appropriated by the State to aid in the prosecution pressing debt before it can be made to meet the of these and kindred enterprises, this \$100,000 & Hamilton White and Thomas T. Davis, of Syraevectations of its friends and proprietors. We was all that was ever spent in the State north of the line of the Central Road.

The building of the road was then pushed with tweever he can to hasten the funding of the

the profits of working the road, are dependent on that event.

#### Detroit and Milwaukee Railway. INTERESTING RAILBOAD HISTORY.

Our readers are already aware of the completion of this important road through to Mill Point on Lake Michigan. It was announced that the work of track laying would be finished on Saturday, Sept. 4th, but in point of fact the last rail was not laid till 5 P. M. on Monday, Sept. 6th, when the final spike was driven, and the Detroit and Milwaukee Railway-a work of strange vicisstudes through laborious years of care and toil-stood complete at last. On the 7th, the first through train passed over the road, and to-day (8th) the Directors go over the line on a tour of inspection.

An event of so much importance to the business and growth of our city and the development of the rich, northern half of the State, will justify us in sketching briefly the outlines of its history

Probably there is no railroad in the United States that can produce so curious and amusing a record of events, so many ups and downs, so many short corners turned, so many financial schemes mixed up with, such complicated transactions, so many different owners, such a variety of side scenes and events attached, so checkered and eventful a history. It is interesting and peculiar, and will well repay a hasty examination.

The road runs from Detroit River to Lake Michi-

gan, a distance of 185 miles.

As far back as 1834, in good old Territorial times, and when Gov. Porter was the Executive by appointment of the President, a charter was obtained from the Legislature of the territory to build a railroad from Detroit to Pontiac. This act was approved March 7. The capital stock of the Company was fixed at \$100,000. Altred or Salt" Williams and Sherman Stevens, both of Pontiac, were the principal stockholders and managers, they owning \$79,000 of the stock, the balance being distributed among various other parties. They continued their control up to 1840, when the general prostration of financial matters reached them in the wide sweep of the "crisis" of

Early in the following year work was commenced upon this road, the right of way being procured and considerable grubbing and some grading being done between this city and Birmingham. March of the same year, on the 26th, an act amendatory to the charter was passed, authorizing the stockholders of the Company to establish the "Bank of Pontiac" at Pontiac, fixing its capital at \$100,000, and making the stock of the roadbeing as much more—liable for the debts of the Bank. This institution went immediately into operation, and continued its business up to the revulsions of 1840, when it went down before the storm in common with almost every Bank in the

The work progressed slowly. Means absorbed in other transactions could not readily be diverted to this purpose, where they were likely to prove, in more senses than one, a permanent investment. Little by little the grading was accomplished until the big swamp between this city and Royal Oak was reached. This proved a fatal slough. The work sank in it inextricably and came to a dead stand-still, and there remained until 1838, when-March 5th-an act was passed by the Legislature of the newly-admitted State loaning the credit of the State for \$5,000,000, to aid in the completion and extension of various railroads, either projected or in precarious existence. One hundred thousand dollars of this money was ob-tained, and with it came opportune relief. The swamp was passed, and the autumn of the same year saw the completion of the road to the Oak,

State with these roads, and add untold millions to its prosperity. The Detroit and Pontiac was to be pushed to its extreme western terminus in the woods of Oakland County. The Central was to be extended on to St. Joseph. The Southern was to start at Monroe and terminate at New Buffalo. A road was to be built at Ypsilanti to Tecumseh and Jonesville, in an air line between this city and Chicago, and also between Detroit and St. Louis. The Railroad Era was upon us, and the State Government went sailing off in the argosies of boundless expectation after the golden fleece.

March 22, 1857, an act was passed authorizing

the Board of Internal Improvement to buy the Detroit and Pontiac railroad, and \$75,000 was appropriated therefor. The purchase, however, was

never made.

About a year later, a movement was made by the State to get back its loan, and a foreclosure of the mortgage held by the State was attempted under Peter Morey, Esq., then Attorney General. This, under the circumstances, became no easy matter to do. Every year had witnessed more or less of legislation relative to this road, in the way of extensions, amendments, etc., until it became a nice question as to whether the foreclosure could legally be effected. At this point-in 1839-we notice the first connection of Henry N. Walker, Esq., with the road. As its attorney, he gave a written opinion that the State could not legally effect the foreclosure in the manner in which it was attempted, and predicted the final abandonment of the suit. The sale under the mortgage was, nevertheless, advertised in one of the Detroit papers through Mr. Morey's administration and into that of his successor, Zephaniah Platt, Esq., when it was finally dropped, but not till the advertising expenses alone had reached the sum of

In the same year-1839-one of the curious and interesting side histories of the enterprise began. Some two years before, the Legislature of New York had passed a General Banking Law, under which banks sprang up in great numbers. By means of bonds of the road and collateral security out of the Bank of Pontiac, \$100,000 of the State Bonds of Indiana were procured, and with these "the Merchants' Bank of Buffalo" was started in that city. This bank kept up for about two years, we believe, when it burst up in the general bank-

ing collapse of the time.

The road, meantime, made slow progress.-Banking enterprises were more immediately promising and profitable. It wound its very slow length along till at length, in the summer of 1841,

it reached Birmingham.

The road to Royal Oak was run by horses only, the track being the old strap rail, M. E. Van Buren was the agent in this city, and H. J. Buckley, now of the firm of G. O. Williams & Co., agent at the Oak. Upon the completion of the road to Birmingham, the first locomotive was put on, then called the Sherman Stevens, but now known as the Pontiac. This engine, after doing all manner of work, was transferred this year to the Port Huron and Owosso road, where it is again doing the pioneer's service. Mr. Buckley was conductor for nearly two years—the first conductor on the D. & M. Railway. On the completion of the road to Pontiac, G. O. Williams became conductor,

which position he held for a considerable time.
In 1840 a second side speculation opened a new field in its history. This was known as the "Salt Speculation" in New York. Into its details we will not go. Suffice it that eastern parties, having an indebtedness against the Bank of Pontiac, commenced an action against the Bank, recovered judgment, and the road was sold on an execution sued out under the amendatory act. It was bid in by Gurdon Williams, of this city, and Giles Wil-

less and was A ed t sum cour

na ty f
pari
of t

of in

a \$1 the branch of the branch of the control of the

own latio ence cess: tiati Will

ton a then beca of in dent in s

amo whol senge and went

conn mont

of the tend ly—I act a

vances as measured by the strides of this fast age, still it kept pace with the locomotion of these troublous times. At length it was completed to Pontiac, and July 4th, 1843, a grand celebration was had, at which Gov. Barry, Attorney General Walker and other State officers were present, congratulatory speeches were made and a public din-ner and other formalities gone through with.

The road was then leased by its Syracuse owners to Gurdon Williams for ten years, who was to pay a graduated amount of rental averaging about \$10,000 a year. At this time the road started from the river, but the passenger depot was at the bridge over the present railroad on Jefferson avenue. After a short time, Mr. Williams, by permission of the Council, laid a track through Gratiot street to Andrew's R. B. Hotel, and made his enger depot there, the Central Road occupymartius adjoining Eldred's leather store, for the same purposes. The road, however, soon encountered violent opposition on the part of the inhabitants along the line of Gratiot street. A long and tedious litigation ensued, and after maintaining session several years, he was finally compelled to leave the street, when he landed his passengers at the present intersection of Gratiot street with the railway. Mr. Williams continued to operate the road till 1849, when he was bought out.

On April 3d, 1848, a charter was granted to Gurdon Williams, E. A. Brush, Alfred Williams

and others for the construction of the Oakland and Ottawa Railway from Pontiac to Grand Haven, the same to be forfeited if the work was not actively commenced in 5 years from date. H. N. Walker, Esq., was elected its first President, but operations

were not begun till 1852.

of

ew ler

By

itv

ate

in

nk-

tely

341,

nly.

iren

now

the

then

n as

nner

Port

loing

road

ctor.

ls we

aving

com-

vered

ution

s Wil-

if not

orace

Syra

oid ad-

e.

In the same year, 1848, steps were taken to extricate the Detroit and Pontiac Road from the slough of debt in which it was buried wholly from Valid claims of greater or less magnitude existed against it on the part of those holding title under the execution and who were in actual posssion, on the part of the original stockholders, on the part of the State for its loan and the accumulated interest, on the part of every creditor of the Bank of Pontiac, on the part of the State of India-na whose bonds had been returned and the security for which was none of the best, and lastly on the part of Mr. Williams who had an unexpired lease of the road of about two years. With all this array of indebtedness, the task seemed well nigh hopeless of ever safely taking hold of the enterprise and pushing it to a paying point. But the effort Friday, 27th August, 1858. was made, and with success.

After a tedious negotiation, the State was induced to take \$15,000 in money and \$18,500 of its own indebtedness in exchange for the \$100,000 loan mortgage. The choice lay between getting this sum or nothing, and appearances then justified the course pursued. The State had complicated its own interests by constant and often unwise legislation, acts enough having been passed with reference to this Road to fill a volume. Negotiations with regard to the other claims were equally successful, and finally, by the payment of \$83,000, H. N. Walker of this city, who had set these negotiations on foot, Dean Richmond of Buffalo, Alfred Williams and Horace Thurber of Pontiac, Hamilton and Horace White of Syracuse, N. P. Stewart, then of Cincinnati, and Jas. B. Plumb of Albany, became the owners of the Road.

Vigorous efforts were at once made in the work of improvement. Mr. Walker was elected President and went to New York, where he succeeded in selling the bonds of the road to a sufficient amount to purchase T rail with which to relay the whole road, and also to purchase the present pas-

senger depot and site at the foot of Brush street. In 1852 work was commenced on the Oakland and Ottawa road. In April, 1853, Mr. Walker went to Europe for the first time on negotiations connected with the road. He was absent three months, and in that time purchased with the bonds of the company 2,600 tons of iron, sufficient to extend the track to Fentonville. They had previously—March 20, 1850—secured the passage of an act authorizing the two roads to make a connec-

interruption.

The act of consolidation between the two roads was passed Feb. 13, 1855, and on the 21st of April the two companies appointed committees to carry out this law. May 12th, the consent of the two parties was filed in the office of the Secretary of State, and the consolidation of the two roads became complete under its present name. In July, 1855, Mr. Walker made a second trip to Europe, this time to negotiate the bonds of the Detroit and Milwaukee Railway. This time he was gone 15 months, and after long and strenuous effort succeeded in selling the company's bonds to the amount of \$1,250,000. With these funds sufficient iron was bought to complete the road to Lake Michigan.

The negotiation was a difficult one. A growing feeling of distrust in railroad securities was evident among the money changers of Europe, and the new road was not generally known and its important position appreciated. Finally, however, after the expiration of more than a year, Mr. Walker's assiduous and unwearied labors were brought to a successful termination, the loan was secured and the means of finishing the road obtained.

The work was then prosecuted with renewed vigor, and station after station along the line of the road was reached and passed. Still, last year, it was seen that there was not sufficient means to stock the road as was necessary, while other expenses would have to be incurred, so that a threatening deficit still remained to be provided for in some manner. Again, and for the third time, Mr. Walker sailed from our shores. The obstacles to be overcome were many and formidable, and the prospects anything but cheering. Yet with hope and unflagging zeal the negotiations were plied, and finally, after nine months' unremiting labor, the well known recent arrangement with the G. W. Railway Co. was effected. The road then passed from the control of the old company into the hands of its present management. After a chequered life of no less than twenty-four years, the Detroit and Milwaukee Railway becomes to-day a verity among the roads of the country, and a long and

curious history was brought to close.

Its prospects, influence, &c., must form the subject of another article,—Detroit Tribune.

#### North-Eastern (S. C.) Railroad.

A meeting of the stockholders of this road was held at the Hall of the Bank of Charleston, on

The President read the Report to the stockholders, of which the following is an abstract :-

At the annual meeting on the 7th April last, the following resolutions were unanimously adopted:

Resolved, That the Board of Directors are authorized, if they deem it expedient, to issue 6,000 additional shares of the stock of the Company, on which a semi-annual dividend of two dollars per share shall be guaranteed, the said stock not to be sold under its par value of fifty dollars per share.

That this Company shall have the privilege of redeeming or renewing the said stock at a rate not above par, at the expiration of fifteen years

from the date of its issue.

That the holders of the preferred stock shall have the privilege of converting the preferred stock into the regular stock of the Company, and the said Board of Directors are further authorized to place in the hands of three appointed Trustees the second mortgage and bonds already issued, as collateral security, to such persons as shall become the purchasers of the said stock.

The Board had found it impossible to dispose of these bonds at a fair value, although they were able to use them as collateral securities, upon which loans, endorsements, and materials could be obtained. From the fact of the first mortgage upon the road being only for \$700,000, and the second for \$300,000—making a total of \$1,000. It was not in thorough operation until the 8th 000 upon its cost, which, when fully completed October last, consequently there are no means of

tion at Pontiac, so that business was done without and equipped, may be assumed at \$2,000,000 seemed reasonable to rely upon their early sale, and the settlement of the indebtedness for which they were pledged. But in this expectation they were disappointed, and recourse was then had to the expedient of issuing a preferred stock as above described.

> The advantage of this measure to the Company was, that it would enable them to fund \$300,000 of their debt.

> The sales have only, thus far, been \$51,750and, consequently, the Board have been greatly disappointed in their expectation of meeting the indebtedness for which these second mortgage bonds were pledged.

The first mortgage upon the road was for \$700,000, covering 1,400 bonds of \$500 each, of which there are unsold 358, at Showing an excess over indebtedness of .. \$38,700

The second mortgage was for \$300,000, covering 600 bonds of \$500 each, of which 14 have been sold, 145 have been deposited with the Trustees of the preferred stock, issued and to be issued—leaving 441 bonds unsold, at their par

value of \$220,500 And pledged for the payment of ...... 155,500 Showing an excess over indebtedness of .. \$65,000

As above stated, 145 second mortgage 

Leaving on hand......\$20,750

If the first and second mortgage bonds and preferred stock on hand were sold at their par value, it would liquidate the debts for which they were pledged, and leave an excess from the first of \$38,-700, from the second of \$65,000, and from the last of \$20,750, or an aggregate of \$124,450, to be applied to current indebtedness of \$80,000, and interest due on 1st prox. \$18,000. But to realize first mortgage bonds at this time would involve a loss upon their value of certainly \$17,900, and probably \$26,850.

The most earnest and active attention of the Board has recently been directed to such negotiations as would enable them to discharge the liabil ities of the Company.

To meet engagements the Board suggest that a call be made upon all the shareholders of thirteen dollars (\$13) per share; and that to those who respond, the Directors should be instructed to issue the preferred stock. If this meets concurrence, the proportions assigned the shareholders would be as follows:

Shares " Hansing at \$13. City Council of Charleston ..... 8,000 ... \$104,000 State of South Carolina ..... 4,400 ... 57,200 Individuals .....3,904... Shares......17,904 \$282,752

The receipts of the road from all sources for the five months from 1st March, ending 31st July, were \$84,373 19—an amount which covers our actual running expenses and the interest on our indebtedness.

responding period in a previous year.

The following resolutions were unanimously adopted, viz:

Resolved, That in the opinion of this meeting, the only timely, practical and effectual measure that can be adopted to extinguish the debts of the Company and conclude the payments for construction, is that recommended by the Direction to the adoption of Council, to wit: That the City, the State, and the Banks shall unite in furnishing the money for the remaining \$240,000 of second mort-gage bonds at par and in rateable proportion to their several subscriptions.

Resolved, That this measure is recommended by the following considerations:

1. It affords protection to the stockholders against the possible sacrifice that might attend a pressure for payment on the part of creditors.

It gives them an undoubted security for the money advanced.

It averts the loss that must inevitably follow from the sale of these bonds to the public.

4. It enables the Directors to complete their arrangements to pay or consolidate the debts due for construction, and to apply the future net income to the payment of interest and dividends.

Therefore, Resolved, That the Directors be requested and authorized to renew their application to Council and the Banks, and to apply, in like manner, to the State at the next session of the Legislature for the foregoing aid.

Resolved. That the Directors be requested to extend their appeal for aid to the private stockholders, and procure from them a proportionate contribution, if possible.

#### Journal of Railroad Law.

RAILROADS VS. HIGHWAYS .- RIGHTS OF LAND OWNERS.

Williams agt. the New York Central Railroad. recently tried in the Court of Appeals in this State, on appeal from the Supreme Court.

The action was brought for the purpose of recovering damages alleged to have been sustained by the plaintiff, in consequence of the appropriation by the defendant (which has incorporated into itself, and succeeded to the rights of, the late Syracuse and Utica Railroad Company) of a strip of land sufficiently wide for two tracks, extending along the centre of Washington street, in the city of Syracuse, and the running thereon of about forty trains of cars per diem, and also for the purpose of restraining the defendant from further entering upon or running over said street with its engines and cars along and past the plaintiff's lands. The cause was tried at the Onondaga circuit, without a jury, and the justice presiding at the trial found the following facts: That prior to 1836, and to the organization of the Company to whose rights the defendants had succeeded, the plaintiff was and still is the owner in fee simple, in his own right, of lands fronting upon Washington street, and upon that part of it where the railroad is constructed, which lands extend to the centre of the street, his fee on the land occupied by the street never having been granted away or surrendered; that prior to the location of said railroad, the plaintff, then a large owner of vacant lands between the village of Syracuse and Lodi, desiring road Act of 1850. to bring such lands into market as village property, having joined with other owners of contiguous and laid out such lands into blocks and village city of Syracuse, to such occupation. The prinlots for that purpose, in conjunction with such cipal question, therefore, and the only one which contiguous owners laid out Washington street, and I deem it necessary to consider, is whether the voluntarily and gratuitously appropriated and de- State and municipal authorities combined could

comparing its present receipts with those of a cor- dicated the land occupied by it to the uses and purposes of a public street and highway, and filed a map of such street in the proper office, and that, in virtue of such dedication and the acceptance thereof by the public authorities of the village of Syracuse, it has since been used and occupied as a public highway for the ordinary passage of carriage and foot passengers; that in building their railroad, the Syracuse and Utica Railroad Company located and constructed them for the distance of a mile or more, upon Washington street, which they used and occupied as and for a railroad, from the time of its construction until 6th of July, 1853. when the defendant took possession, and has since used and occupied it for the same purpose: that the plaintiff at the time of the construction of the railroad, owned other lands extending to the centre of said street which had been sold and conveyed by him before the commencement of this suit, but in the sale of said lands the plaintiff did not part with or transfer any claim which he might have against the railroad company for damages in respect to such lands, occasioned by the construction and use of said railroad; the plaintiff has never received any compensation for the occupation of his lands in the street, nor has any been assessed, nor has he consented to the construction of the railroad in said street; that the public authorities of the village and city of Syracuse have assented to and sanctioned the location of the railroad in said street, and its use for that purpose, upon conditions which have been observed by the Company. Judgment was rendered for the defendant. Upon appeal, the Supreme Court, at general term in the fifth district, affirmed this This case, to which we referred last week, was judgment and the plaintiff appealed to this court.

SELDEN, J .- This is a suit in equity, the object of which is to obtain a perpetual injunction restraining the defendants from continuing to use and occupy with their railway a portion of a certain highway or street, in the village of Syracuse. known as Washington street, and to recover damages for its past occupation. Washington street was gratuitously dedicated to the use of the public by the plaintiff and others through whose land it was laid; and the Utica and Syracuse Railroad Company, to the rights and liabilities of which the defendants have succeeded, constructed their railway upon it without making any compensation to the plaintiff, and without his consent. At the time the track was laid the plaintiff was the owner of a large number of lots fronting upon the street, a portion of which he has since sold, with a reservation of his claim against the railroad company for damages, and a postion of which he still owns.

The damages which have accrued, both upon the sold and unsold portions of the premises, are claimed in this suit.

The defendants in justification of their occupation of the street show that the charter of the Utica and Syracuse Railroad Company (Laws of 1836, 319, §11) declares that their road might "intersect" and be built upon any highway, and that this right is confirmed by the General Rail-

They also show the express consent of the municipal authorities of the village, as well as of the

confer upon the railroad company the right to construct their road upon this street without obtaining the consent of the plaintiff or making him compensation.

If the railway encroaches in any degree upon the plaintiff's proprietary rights, then it is clear that the constitutional inhibition, which forbids the taking of private property for public use "without just compensation" applies to the case.

It is conceded that by the dedication the public acquired no more than the ordinary easement or right to use the premises as a highway; and that the plaintiff continues the owner in fee, in respect to the unsold lots to the centre of the street subject only to this easement; but it is contended that the taking and the use of the street by the railroad company does not encroach upon the reserved rights of the plaintiff, because the use of a street for the purposes of a railroad is only "one of the modes of enjoying the public easement."

[We omit here the greater portion of the opinion. in which a number of cases, bearing upon this subject, in this and other States, are discussed. If any one desires to refer to them, the opinion may be found in full in vol. 16 N. Y. Rep. (p. 97) just issued.]

I have no hesitation in coming to the conclusion that the dedication of the land to the use of the public as a highway is not a dedication of it to the use of a railroad company; that the two uses are essentially different; and that, consequently, a railroad cannot be built upon a highway without compensation to the owners of the fee. The legislative provisions on the subject were, probably, intended to confer the right so far only as the public easement is concerned, leaving the companies to deal with the private rights of individuals in the ordinary mode. If, however, more was intended, the provisions are clearly in conflict with the constitution, and cannot be sustained.

It follows that the defendants, in constructing their road upon Washington street without the consent of the plaintiff and without any appraisal of his damages or compensation to him in any form, were guilty of an unwarrantable intrusion and trespass upon his property, and that he is entitled to relief. Although he had a remedy at law for the trespass, yet, as the trespass was of a continuous nature, he had a right to come into a court of equity, and to invoke its restraining power to prevent a multiplicity of suits, and can, of course, recover his damages as incidental to this equitable relief. There may be doubt as to his right to recover in this suit the damages upon the lots which have been sold because, as to those lots, there was no occasion to ask any equitable relief, and to permit the damages to be assessed in this suit, in effect deprives the defendants of the right to have them assessed by a jury. But as this question has not been raised it is unnecessary to consider it.

The judgment must be reversed, and there must be a new trial, with costs to abide the event.

STEAM IN THE CITY—NEW YORK AND NEW HAVEN RAILBOAD MOTION FOR INJUNCTION DENIED.

The Journal of August 14, contains the decision of the Court of Common Pleas in the case of the Harlem Railroad Company. A decision in the case of the New Haven Company has just been rendered by Justice Nelson of the United States Circuit Court. As the grounds taken in this deci- made by the Company, after paying interest and sion are substantially the same with those in the case of the Harlem Road, there is no need to

Nelson, J.—Construing the eighth section of the act of 1848, in connection with the charter of the Harlem Road, and they must be taken as acts in pari materia, I cannot resist the impression that the meaning and intent of the Legislature were to confer upon the New Haven Road no greater privileges than had been or might be conferred on the Harlem. They are authorized to run their cars, &c., over the road of the latter Company from the junction at Williamsbridge to the City of New York, and "as far into the said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, and "as far into the Said in City of New York, an city as the said Harlem Company may extend."
The power conferred is simply to use the Harlem Road, and nothing more, as they possess no right to construct one in the city. And it would be singular if the Legislature had vested in this Company a right as against the Common Council superior to that of the Harlem Company.

ıt

et

d le 6-

)e

n.

d.

on

7)

on

he

to

, &

ut

is-

in-

lic

to

he

ed,

on-

ing

the

sal

ny

ion

at

f a

0 8

ing

an.

to

s to

pon

080 ble

d in

the

t as

ary

nust

VEN

the

the

Besides, we are of opinion that both the New Haven Company and Legislature are to be presum-ed to have had a knowledge of the limitation of the use of the road by the Harlem Company at the time of the passage of the act of 1848, and hence that the privileges granted should be construed as subject to this limitation.

Without pressing the argument further, I am satisfied that the city authorities possessed the power to pass the ordinance of the 27th of December, 1854, and that the motion for the injunction should be denied.

#### Spartanburg and Union Railroad.

The annual meeting of the stockholders of the Spartanburg and Union Railroad Company was held in Unionville on Wednesday, 25th inst.

We extract the following from the report of the President, as published in the Unionville Journal:

No apprehensions need longer be entertained that the grading will all be finished before the 1st of January next.

Our whole line of road is now under contract, except for a part of the 70,000 cross-ties necessary to lay the track between Union and Spartanburg.

Of the \$350,000 of the bonds to be endorsed by the State, \$150,000 and our uncollected subscrip tion is set apart (by the direction) to extinguish our indebtedness. This will leave the company only \$200,000 of endorsed bonds to finish 48 to 50 miles of railroad. To do so, it will cost us \$280,-

This will leave us a debt of eighty thousand dollars; to which amount there should be added an amount sufficient to improve our road in the valley of Broad river, to cover our bridges and to make additions to the machinery and rolling stock requiring in all over \$100,000.

With this amount the road can be completed in six months.

I propose the following plan to raise the amount. Issue \$100,000 of preferred stock, bearing 7 per cent. interest, payable semi-annually, at the office of the company, in cash or freight, and let it be divided out among the friends of the road.

The following gentlemen were elected officers

for the ensuing year:
JOHN L. YOUNG, President.

Directors: S. Bobo, T. M. Lyles, W. J. Keenan F. Scaife, T. N. Dawkins, T. B. Jeter, Govan Mills S. N. Evins, J. W. Miller, J. H. Carsen, James Gelliam and Wm. Kirkwood.

The following resolutions were adopted: Resolved, That the Company will raise one hundred thousand dollars of additional stock, in order

to complete the road to Spartanburg.

Resolved, That all persons taking said stock shall

Domestic loan. 36,970 13 be paid dividends thereon semi-annually, either in Individ' cr'dits. 6,552 89 cash or freights, at the rate of 10 per cent, per Orders ....... 456 13

Resolved, That the said stock shall all be refunded to the stockholders by the first surplus Reduction during the last six months . \$20,607 06 \$100, by instalment.

expense

Resolved, That the new stock be made payable repeat them. We give merely the concluding paragraphs of the decision of by the first of January next, in cash, labor or materials on the road, as may be agreed on by the officers of the road and the subscribers.

#### Cincinnati City Debt.

On the 1st of July the City of Cincinnati paid the following sums of semi-annual interest upon its

I	outstanding indebtedness.	Value.	Interest.
ı	Stock in Miami Railroad	. \$80,000	\$2,400
I	Loan to same road		
	Stock in White Water Canal		
	Loan in same canal		
	To fund floating debt of the city.		
	To fund floating debt of the city .	.150,000	4,500
I	Purchase money of city lot	. 60,000	1,800
	Purchase of wharf property	.470,000	14,220
	Loan to Cinc. & Marietta R. R.	.150,000	4,500
	Exchange on above on New Yor.	k	Disco
	and Philadelphia		334

.....\$1,524,000 \$45,654 Totals .... The valuation of Hamilton County is \$120,890 791. The city owns property to the extent of \$6,726,000, and its whole debt is \$3,719,000. The annual taxes are \$671,911.

#### Eaton and Hamilton Railroad.

The following is an abstract of the Report of the President to the stockholders and creditors of the Eaton and Hamilton Railroad Company.

The tables have been compiled with care, from the books of the corporation, and are believed to present a true exhibit of its business operations to the close of 1857; and a proximate one of equa reliability for the first six months of the current

Income for the year 1857, and Current Expenses.

ceivea	from freight tr	анарогииноп	١.	. 1	612,902	40
Do.	passenger	do.			62,640	58
Do.	mails	do.			2,892	84
Do.	express	do.			2,500	00
	-10					

\$140,935 88 Working expenses, rents, etc., paid ... \$90,928 15

Incom	e for the year	1856,	and	Current	Expenses	3
From	freight transp	ortatio	n	§	97,433 8	(
	passenger	do.			72,399 1	6.0
66	mail	do.			2,499 9	1
66	express	do.			2,321 0	(

express do.	2,021	V
8	174,653	88
Working expenses paid	80,587	66
Taxes for the year 1856	2,646	70
Railroad	10,000	00
Railroad Interest and discounts on floating debt	20,270	88

and R. & M. Bonds, 1 m..... 19,247 67 \$132,752 91 Condition of the Floating Debt of the Eaton and

Hamilton Railroad. December 31, 1857. Bills payable. .... \$52,773 54 Domestic loan ..... 37,170 13 Due individuals ..... 4,845 37 753 26 Orders ..... \$95,542 30

Reduction since last report ........\$36,388 42 July 1, 1858.

456 13 74,985 24

Aggrega			arnings for 1854.	I	ive Years	
Freight Passenger .	1853 . \$49,209 . 35,972	41	\$61,845 64,806		\$96,456	04
	\$85,182	01	\$125,152 ( 1856.	06	\$171,929 1857.	
Freight Passenger.			\$97,433 80 77,220 09	無大な	\$72,902 68,177	46
		8	174,653 89		\$141,079	80

Ledger Balance of the Eaton and Hamilton R. R. Company, July 1, 1858.

	Company, July 1, 10	100.
	A CONTRACTOR OF SECTION AND ADMINISTRA	DR.
Construc	etion	. \$1.101.744 69
Equipme	ent	74,422 91
Real esta	ate	185,166 51
	n railroad companies (st	
	d,)	
Droft an	nd loss	188 71
Cumant	440 600	100 11
Current	expenses\$42,680	04
	interest 31,097	
Individu		- 73,778 02
	ial ledger	8,310 84
Cash on	hand and cash items	2,882 71
-1		
9		\$1,504,125 09
		Cr.
Capital	stock	\$469,762 68
	ssued	
Dom anti	ic loan	
Orders		456 18
Bills na	yable	30,956 09
Individu	ual ledger	5.522 18
Suspend	led interest	126,308 92
Pay roll	ls and over-drafts	1.030 71
	from transportation	
1 Income	nom transportation	10,004 20
t		\$1,504,125 09
		\$2,001,120 OF

#### Mexican Railroad.

The Vera Cruz correspondent of the New Orleans Delta gives the following information concerning the progress of the railroad survey from that city to Mexico:

In Mexico I met with Col. Talcott, steam engineer in chief of the survey being effected between this city and the capital, for the purpose of locating a line of railroad for account of Manuel Escandon. I learned from his son that the line had been located as far as Orizaba, and that they found that they could ascend the Cumbus between that city and Puebla, with not more than 20 miles of heavy grading, and with no grades over 200 feet to the mile. The big barranco between Cordova and Orizaba will require a bridge of 1,080 feet in length, and it will be about 350 feet above the running water beneath. This road is a work of great mag-nitude, but it is the only thing that can save the nation. Manuel Escandon has undertaken it, and he has the energy to carry it through, provided his countrymen will only give him a chance. I was told in Mexico that Col. Talcott's report would be made in September, and that then Escandon would proceed to Europe via the United States, in order to lay his plan before the capitalists of the world. If success attends him, I hope to see the work under way within the coming year. In 18 months it could be finished as far as Orizaba, and in four years it could be carried to Mexico.

#### Grand Trunk Railway of Canada.

The Directors of the Grand Trunk Railway Company have issued an important circular presenting a new financial plan, with a view to the speedy completion of the Victoria Bridge and to advance the terminus to Detroit. Each shareholder is to have an option to cancel one-fifth of his consolidated stock, and to receive for such canceled stock a like amount of 7 per cent. Debentures, redeemable at par on the 1st October, 1867, upon condition of his subscribing for an equal amount of 7 per cent. Debentures, redeemable at par on the 1st October, 1862. These latter are to be paid for in money at the rate of £80 for each debenture of 186

### Railway Share List, and all sands the wast sto plants and the

Ala Bu Be

Con China Ch

who in man a second	indiana.	278,88	Com	and t	and the	in filmon	tit.	2 87 C/254	every Wednesday on a par vi	TES C	also y	William to Fine	max anim	-707	-	
NAMB OF COMPANY.	Ungth of Ros	Capital paid in.	Debt	Total cost of road & equip't.	Gross Earnings for last official year.	Net Barnings for do,	Dividend for do.	Price of Sharer.	NAMB OF COMPANY.	Ungthof Road.	Capital paid in.	Debt	Total cost of road & equip't.	Gross Earnings for last official year.	Net Earnings, for do,	Dividend fordo.
Atlantic & St. Lawrence	149	2,494,900	3,482,000	6,591,829	576,483	PIN	. 6			30 92	151,887 1,399,100	463,648 441,292	538,649 2,235,328	In progr. 865,214	208,771	9
adroscog. & Kennebec	70	457,808	1,835,308	2,210,947	159,518 218,255	83,368	none	8	Tennessee and Alabama	59	309,754	626,889	679,906 1 189 659	53,776 113,802	29,405 87,210	
Portl., Saco, & Portsm'th Boaton, Conc. & M'ntreal	51	1,396,400		1,869,373	263 717 329,767	174,025	5	9:3	Memphis and Charlest'n	2571 4	2,228,177 6,784.8 29	3,495,288	5,572,470 10 701,428	642 022 554,382	334,504 278,428	
		2,085,925	899.313	8,179,687 1,412,576	355,629 317,050	113,077	4 6	45	Mobile and Ohio	82	1,575,474	926,796 1,400,000	2,503,098	115,679 264,255	150,789	
Oncord Northern, N. H	82 90	8,068,400	408,286	3,068,400 1,784,146	365,890 177,588	78,401	none		N.O., Opelousas & G.W.	80)	2.800,000 4,035 000	750,000 1,815,610	3.877.526	284,178 189 003	127,450	
Butland & Burlington		2 233 376	4,158,369	4,575,396 9,752,055	384,125 808,328	160,570	none	e 1	Vicksb., Shrevep.& Tex	20	851,293 1,192,974	4,447 1,738,669	831,521	In progr. 227,868	104,992	
Boston and Lowell-	25 74	1,830,000		2,412,251	435,863	171,882		80	East Tennessee and Va Nash. and Chattanooga	43	626,075 2,263,905	1,728,664		61,314 641,552	39,062 219,26	
Boston and Manne. Boston and Providence.	74 43	2,240,300	1,673,589	3,692,144 8,584,458	584,176			87	Covington & Lexington	98 29	1,384,850 430,056	3,065,917 156,809	4,091,604 658,255	426,408 95,807	220,906 45,71%	
Roston and Worcester	44		599,974 291,007	4,843,779 1,031,625	1,019,149		3 6	91.4	Lexington and Danville	13 65	694,444 741,069	71,000 625,216	765,500 1,502 095	In progr. 215,750	109,059	
Uape Cod Jonnecticut River	50		275,772	1,801,244 5,082,607	267,710 616,156		3 3	44	Atlantic & Gt. Western 2 Bellefontaine and Ind 1	254	866,939 1,874 395	77,494 1,315,237		In progr.	120,836	
Eastern, Mass Fitchburg	67	3,540,000	100,000 none	8,872,821 541,580	668,974 168,925	250,833 27,827	3 6	843/2	Cleve, Col., and Cincin	41) 4	1,746,24	90,400	4,752,320	1,149,741	514,740	0
	21 77	8,015,100	260,100	3,362,949	683,357	305,140 52,267	6	92%	Clev. and Mahoning	65	3,333,712			930,232 In progr.	433,790	
Fermont and Mass.	69 155	2,232,541 5,150,000	1,019,148 5,839,080		240,133 2,117,982	889,763 82,720	8	105	Clev., P. & Ashtabula	95 8	2,780,744 3,000 000		5,537,466 3,955,230		309,518 581,454	15
Vorcester and Nashua	48 72	1,141,000	800,000	1,351,271 1,781,048	216,888 844,778	155,044	7	82 119%	Cin., Wilm. & Zanesv'e 1	31 2	2,155,800 2,421,176	3,782,040	3,130,315 5,696,210	487,421 223,506	260,763 30,288	
artford and Tishkill	72 22	2,359,000 1,941,340	944,000 2,375,274	3,424,131 4,202,519	769,065 367,895	372 807 166,162	none		Dayton, Xen., & Belpre	63	1,490,450 437,838	149,000 422,658		403,212 In progr.	181,688	
constonic	74	2,000,000 1,031,800	423,685 524,244	2,438,847 1,580,728	318,475 237,416	114,237			Dayton and Michigan 1 Dayton and Western	35	310,000	393,011 700,481	1,185,826	In progr. 125,940	63.253	****
York and N. Haven	62	3,000,000 738,258	761,462	5,519,580 1,450,818	854,995 88,007	254,569 80,318	DODE		Little Miami	42 65 2	454,690 2,981,282	904,489 1,266,000	1,155,135 8,925,157	171,929 775,442	65,000 290,123	
London, W. & Patrick	66	510,500 2,122,300	724.183	1,603,230 2,598,671	120,571 265,417	51,644 44,547			Sandusky, Dayton & Cincin. 1 Central Ohio	38 1	,697,090	3,368,006 5,191,877	6,065 090 6,421,908	682,614 712,213	134,371	
theny Northern	32 35	439,005 643,330	1,625,098 317,853	1,840.695	117,716 n progr.	9,904			Pittsb. Ft. Wayne & Chicago 3 Pittsb'g, Maysv'e & Cin	83 5	371,350		11,718,511 390,933	1,111,626	662,117	
uffalo, Corn. and N. Y 1 uffalo and N. Y. City	00	1,487,874	1,501,183	2,819,096	172,476 288,392	66,333 31,896			Sand'y, Mansf. & New'k 1: Scioto & Hocking Valley	27 1	,350,000 403,975	2,206,357 509,050	3,552,357 888,858	328,958	164,479	
offein and ML Lilliuness sees	00		1,040,000	2,494,364	679,750 174,089	855,763 69,506	10	****	Springf, Mt. Vernon & P 1: Tol., Wabash & St. Louis 2:	13 1	,000,000	950,000		In progr.		
Minural Pre			2,279,854	8,495,832	135,433	48,649			Cin., Log., and Chicago 2: Evansv'e & Crawfordsv 10	55 4	,196,679 986 061	1,006,125 1,270,872	2,080,433 2,158,713		opened.	
ndson River 1	86	8,758,466	9,250,362 1	2,737,898 1,	902,828	688,880 56,186	none	284	Ind. and Cincinnati	88 1	686,809	1,564,584	8,029,989	491.743	124,140 245,622	7
ong Island	be 3	4,186,661	4,607,510 3	0,615,815 8,	027,251	3,573,736 454,032	8	73%	Ind., Clev. & Pittsburg 8	33	612,350 835,791 ,014,252	1,261,179 1,07 . 694 694,000	1,909,911	3n8,189 253, 19	204,685 85,248	none
ow Vork and HEIBIR I	group 1	0, 2, 1200		2,000,000,12	040,393 520,153	324,891 135,754	none	104	Madison and Indianapolis 8 New Albany and Salem 28	37 1	647,700	1,336,816	1 839,576 1,205,000	222,787	94,318 118,628	none
orthern, N. Y	85	306,130 467,200	213,025 294,189	752,030	149,373	78,754	8		Peru and Indianapolis 7	3		5,281,848 858 314	6,643,189	645,827 150,000	371,402 90,000	none
ottadam and Watertown -	25	610,000 500,000	140,000	749,683 L 896,423	241,149	82,600 21,089	7		Chicago and Rock Isl'd [18	2 5	361,450	250,125 1,734,318	1,585,809 6,628,272	481,272 1,886,196	206,079 850,039	
ratoga and Wintenan	18	768,369	396,600 1,578,804		71,909 159,484	22,503	none		Chicago, Burl. and Quincy 21 Chic., St. Paul & F'd du Lac. 17	8 2	300,000	3,852,970 1,325,000 3,899,015	8 042, 426 8,625,000	in progr.	810,767	
oy and Boston		487,830 1,500,000	700,979)	2,200,500	156,363 440,290	55,184 162,037	8%	63	Galena and Chicago	14) 6.	556.435/2	0.815.4925	9,395.455 28,437,669	293.986/	1,192,042 565,972	8
ridere Delaware	94	3,000,000 1	1,407,200 8	3,794,096 1,	248,393 640,787	114,632 594,114	12	101	Ohio & Miss. (Wst.Div.) 14	7 1	780,295	2,200,000 8,292,403	5,400,000 4.870,586	Recently	pened.	
mden and Atlantic		8,485,000 8,485,000		1,788,171 3,6 <b>6</b> 0,017	911,617	45,542 534,951		125	Terre Haute, Alt & St. Louis 20 Detroit and Milwaukee 18	50	838,000	1,128,964	1.966,969	n progr.	247,757	
wie and Easex	53	1.157,805	340,000	1,684,127		857,193 101,542	3%		Mich. Central 28 Mich. South'n & N. Ind. 47 Green Bay, Mi. & Ch. 4	15 8	,057,840 ,876,400 1	8,366,639 0,459,68	12,847,238	2,248,758	764 935 544,311	
lieghany Valley.	83	1,637,867 1,700,000	1,940,000	1,988,317 R 3,640,000	219,253	52,450			MHWaukee and Aliss.	58 23	440,673	780,000 4,610,583	8,051,265	882.818	372,691	
mberland Valley	52 70	1,149,400 3,292,772	6,194,551		188,134 815,768	41 ,139	6	24	Milwaukee & Watert'n 7	2	354,861	132,000	514,238			
to and North East	40)	600,000	150,000	750,000 _			10		Milwaukee & La Crosse 18	66) 1.	,101,200 ,633,974 ,586,405	8,314,734 498,479	5 000 700	407 107	203,264	
tle Schuylkill	28	2,606,100 3,051 865	546,222 2,820,165	8,407,651 4,774,104	853,801 248,784	255,930 136,597	9		Hannibal & St. Josephs 10 North Missouri	06 1	664,773	6,868,000	2,681,086 8,583,229 4,346,229	In progr		
mnsylvania 2	56 L	3,206 625 1 1,375,541	5,690,524 2 9,423,506 1	7,266,982 4. 9,263 720 3.	855,670	,854,927	6	85°	St. Louis and Iron Mt.	26 3,			4.346,229 10,486,394 3,913,272			
hilad, & Sunbury	98	6,600,000 899,350	2,673,450 376,800	8,568,369 1 1,274 150	143,853 206,981	378,876 113,443	4	34.4	Panama	19 8,	743,900		6,564,852	,305,819	845,183	12
teb and flonnelisville	101	1,748,052 3,676,030	1,613,403 875,293	2,285,606 3,288,298	45,587 105,860	4,318			U. 8	L GC			CURITIE	8.		
nbury and Erie	70	1 500 000 °	1 990 000	2 484 454	274.554	157,458 ,856,214		10 K	PA Sall to provident P	er ct					OFF'D Per c	
enhington Branch	11	#1000/00001	40,000	1,000,000	369,229 781,688	124,981 283,284	6	57%	Loan, 6 per ct18621 Do. 6 do18671		106 114 %	Loan Do.	8 peret.	186	58 114	1
orthern Central, Md	35	468,305 1,457,000	5,719,229	322,150 R	ecently 0 275,791		08:	****	Do. 6 do18681	14	*****	Do.	5 do	18	74108	i
		1,371,700	1,489,012	3,387,085	355,270	167,216	none		Maine, 6 per ct1860i			BECURIT		Sun /	Marketon.	i ia
ttabig & Steubenvale	16 8	3,000,988	L,479,818 4	914,695 II	508,413	270,048	none		Massachusetts, 5 per ct. 1859 1	108		Do	na, Can.Lo do. pr	ef. 5 do	10	6.3
rgima and Tennessee 2	10	3,471,677 ( 1,977,399	280,000 L,479,818 3,878,699 326,407	487.685	461,918	255,036			New York, 6 per ct.1860-621 Do. 6 do: 1864-651	09	110	Louis	do. pr ucky,6 per siana, 6 do land, 6 do	cp. 1869	72.104	1
chmond & Petersorg	0 1	1,000.000	230,800 1	205,412	156,908 232,172	120,212	7		Do. 6 do. 1866-671 Do. 6 do. 1872-751	14%		Mary	land, 6 do.	ср.1870	-90_165	1
tersburg and Roanoka 2	8 4	769,000	158,502 1	,009,115 ,235,000 R ,379,168 ,240,241 ,719,045	ecently o	nened.	4		Do. 5% do. 1860-611 Do. 5% do18651	03	104	N.Ua	rollna, o do.	CP 187	3. 95%	
ilm'ton & Manchester		1,123,888 978,300	1,215,909 2 126,200 1	,240,241	462,576 206,917	2 40,938 r 108,541	2%		Do. 5 do 1866-741	02	104	Do.	6 do	187	0100	1
16 k Columbia	0 1	,201,000 ,293,464	126,200 1 380,000 1 968,800 1 1,814,990 1	,719,045 ,999,080	240,722 214,865	121,555	6		Do. 4% do,1868-59-64,	92	100	Do. Do.	6 do.	187	5-107	1
orth-kastorn	3 4	298,464 886,650 179,206	1,814,990	,999,080 ,907,478 ,588,037 ,171,707	99,404	206,774 88,272 740,535	9		California, 7 do.coup.,1877.	82 00	87 101	Do. Penns	5 do.		16 95	
Conto and La Grange	7	1,000,000 1,166,000 1,795,910 1,488,560		171,707	817,770	101 800	2	10000	Florida Int. Imp. 7 p. ct. 1891	01	85 101 %	Do.	a do	cn 187	7- 94	E
unda Opelral	1 3	488 580	191 767	174,491 1, 750,000 1, 500,000 444,723	122,646	320,171 582,810 1 132 627	10	Jack	Indiana 6 do Bo 2% dec	89	89%	Do.	6 do.	ср	90%	A
ACCO AND WOLLDING NAME OF	6 i	414,924	20,000	400,000	#80,20I	115,171	0	75	27 CO	N. S.	110	Virgi	U-B; 0 CO.	OD 150	Water Wild	STATE OF

	R	ailros	d Bonds	di	A SET, ET A SE	7.60	TARREST.	A "0	12-
NAMES		MALL UP		-	ment sag Z2	100	an Market	70	
COMPANIES. (The following quotations are ex- interest.)	Amount of Loan.	Descrip	otion of Bonds.	Rate Int.	Interest pay- able.		Due.	Offered	Asked
abams and Tennessee River		1st mortga	re, convertible	7	1st Jan, 1st July	N.Y.	1872 1866	90	85 95
offalo and State Line	600,000	Do. Do.	inconvertible	7	April, October- Jan'y, July	64	1866		85
Do, do	200,000	Real estate	ar. Cl. Col. & Cin.	7	Jan'y, July Feb'y, August.	64	1858 1859		34-
entral Ohio	1 010 000	ist mort, co	ony east soe	1 7	Divers	46	1861-64	63	75
DO	900,000	2d do. in	convertible	.17	March, Sept 20. July		1865 1867	50	85
Do. do. do.	485 000	20 00.	ge inconvertible	. 1 7	May, Novemb	44	1880		75
ncinnat and Marietta	2,500,000	1st mortga Bo.	ge, conv. till 1862.	- 7	Jan'y, July May, Novemb	u	1868 1862	D871	-25
ncimati, Wilmington, and Zanesville eveland, Painesville, and Ashtabula.	1,300,000 567,000	Do.	convertible	1	Feb'v. Amonat	1	1861	90	95
everand and Pittsburgh	800,000	Do. Do.	convertible	1	Feb'y, August. March, Sept.	6046.0	1873	:60:	55
Do. do. eveland and Toledo	1,200,000 525,000	Do.	on Branches inconvertible	- 2	Feb'y, August.	- 44	1863	75	80
hicago and Mississippi	800,000	Do.	conv. till 1857		Feb'y, August April, October	44	1862-72		60
Do. do. ovington and Lexington	1,200,000	Do. Do.	inconvertible .	- 6	April, October		1862-72	62%	65
Do. do.	1,000,000	2d mortga	20 convoyeible	1	March, Sept.	1	1883	75	80
elaware, Lackawanna, and Western-	1,500,000	1st mortga Do.	ige, do.	-17	April, October		1875 1891		. 80
orids Freeland	1,500 000	Do.	not convertible conv. till 1863.	9.	Jan'y, July Feb'y, August	. 66	1878	000	72
aiena and Unicago	2,000,000	Do. 2d mortga	incommontible	1.5	May Normal	66	1863	96 %	97
Do. do. reat Western (Iilinois)	1,000,000	1st mortga	ge, do	- 1	May, Novemb	66	1868		-
reen Bay, Milwaukee and Chicago	400,000	Do.	convertible	-	8 10 April, 10.00	3.	1868	87%	
effersonville	800,000	Do. Do.	2d sec. inconv		April, October May, Novemi	46	1878 1866		- 8
dianapolis and Bellefontaine	450,000	Do.	do	-	Jan'y, July March, Sept.		1860-61	70	8 8
adianap. & Cin'ti (for Lawh, & II. M.)	500,000	Do.	conv. till 1857 ist sec. conv. till 18		7 March, Sept.	- 66	1866 1874	1	. 7
a Crosse and Milwaukeeake Erie, Wabash, and St. Louis	950,000 3,400,000	rat morts	age, conv. till 1859		8 May, Novem 7 Feb'y, Augus	66	1865	66)	6 8
ittle Miami	1,500,000	I DO.	age, convertible		6 2 May, 2 No	r. Bos	1883 L 1860	96	9
lichigan Central	1,000,000	100.	do		g March, Sept.	**	1869	93	15
lilwaukee and Mississippi	600,000	1st mort.	1st sec. conv. till 18		8 Jan'y, July .	N.Y	7. 1862 1863		- 8
Do. do.	1,250,000	200	2d do. 18 3d do. 18		8 June, Decem	b. 66	1877	75	
lew Albany and Salem	500,000	Do.	1st section	1	10 April, Octobe	er. 46			
Do. do.	1,200,000		oth. sec. con, till 18 age, convertible	58	8 May, Novem 8 Jan'y, July	U.		-	-
hio and Indiana	1,000,000	Do.	do.		7 Feb'y, Augus	£_ 66	1867		
hio and Pennsylvania	1,750,000	Do.	do		7 Jan'y, July _ 7 April, Octob			,	
Do. do. Pennsylvania (Central)	5,000,00	1st mortg	rage, conv. till 1860		& Jan'y July	- Phi	la. 1880	98	14
Racine and Mississippi.	680,000	Do.	conv., sink'g 1st sec. conv	ra	8 Feb'y, Augu	st. N. J	1875		
scioto and Hocking Valleysteubenville and Indiana	1,500,00	Do.	convertible		8 Feb'y, Augu 7 May, Novem 7 Jan'y, July . 7 March, Sept	- 65	1865		
perre Haute and Indianapolis	600,00	Do.	do		7 March, Sept. 7 Feb'y, Augu	at of	1866 1862'7'	72 64	
NAMES	1 6	1	do		1	1	1	1	12
COMPANIES.	Amount o	Desc	ription of Bonds,		Interest pay	Where	able.	Offered	Ollered
(The following quotations include the accrued interest.)	Ame				able.	A	Due	- 8	5 -
Baltimore and Ohio	1 128 50	0 Mortgage	9		6 Jan'y, July .	Bal	t. 1875	84	
Chicago and Rock Island,	2,000,00	0 1st mort	gage, conv. till 185		7 10.Jan. 10.J	aly N. I	7. 1870 1867	95	
Erie Railroad			age, convertible		7 May, Novem 7 March, Sept		1859	89	136
Do	6,000,00	0 3d mortg	age		7 March, Sept		2000	75	
Do.	6,000,00	0 4th mort	gage, not converti Sink.Fund, \$420,	one.	7 April, Octob 7 Feb'y, Augu	101		32	
Do	4,351,00	0 Converti	ble, Inscription		7 Feb'v. Augu	R\$_ 64	1871	30	)
Do	3,500,00	0 Converti	ble		7 Jan'y, July . 7 Feb'y, Augu	AE G	TOOP	0 101	
Hudson River	2,000,00	0 2d do.			7 16.June, 16.1	ec "	1860	88	321
Do	3,000,00	0 3d do.	convertible.		7 May, Novem 7 April, Octob	er.	TOIL	80	
Do. (Free Land)	3,000,00	0 M'ge 345.	e, inconvertible ,000 acrs-priv.7 sh	ar's	7 March, Sept	4	1860	87	
Michigan Southern	_ 1.000.00	0 lst mort	gage, inconvertible		7 May, Nover 7 May, Nover 7 June, Decer	ab.	1000	2 84	
New York and Harlem New York and New Haven		Do. No mort			7 June, Decer	nb.	1855'6	0'6 92	24
New Haven and Hartford	1,000,00	00 lat mort	gage, do.	-	6 Jan'y, July 7 Feb'y, Augu	aut.		90	
Northern Indiana	1.500.00	00 Do.	do.		7 Feb'y, Augu		1868	67	7
New York Central.	8,287,00	00 No mort	gage, do.	-	7 Feb'y, Augu 6 May, Nove 7 15.June, 15.1	nb.	1883	100	
Do. do.		00 Converti	conv.from June 5	-09	7 Jan'y, July		1866	(11:	3
Do. 2d do	1,478,00	00 Do.	till 1858		7 Jan'y, July	Ds	1866 ila, 1860	9	0
Reading	_ 1.300.0	00 Mortgag 00 Do.	e, inconvertible		7 Jan'y, July 7 Jan'y, July 6 Jan'y, July 6 Jan'y, July 6 April, Octob	Ph	1870	7	
Do.	1 8,469,0	Do.	inconvertible		6 April, Octob	er.	11886	1 6	6%
or helich seek are in a looked to	t'st payal	ole, Off'd		_	CURITIES.		l'st payal	ole. O	f'd
New York. 5 per ct 1858-'60 Do. 5 do 1870-'75	May,		98 New Orlean	A A	per ct. cp. R.R	X 1	vers	7	3
Da . 6 do 1888	August,	and 102% 1	02 4 N Orleans	ne	ret en municip	X Ja	n'y, July.	8	30
	Novembe	r. 91	93 1 Philadelphia	. 61	per ct 1876-'98	Ja	n'y, July	8	7 X
Albertany & per et. Coup. 18/18/18/18	an'y, July		70 Pittsburgh,	o p	er et, coup186	X Ja	n'y, July	6	30
	narterly	974	99   Racine, 7 pe	O 36	L COUD 187	5 A 10.	FOD'Y, A	ug -	00
	an'v. July		98 St.Louis, 6	per	ct. coupLon	RX.	Do	8	30
				-	the same of the same of the same of	901		1 0	34
Brooklyn, 6 per ct. coup. Long A			101 Do.	do.	Municipal	A V	Do		
Brooklyn, 6 per ct. coup. Long A			90 Sacramento	,10	p.ct. cp. 1862-7	4 X	Do	4	10
Brooklyn, 6 per ct. coup. Long X Clev#d, 7 per ct. cp. W. W. 1879 X Cincinnati, 6 per ct. coup. X L Chicago, 6 per ct. coup. 1873 77 X J	an'y, July	80 85	90 Sacramento	,10	p.ct. cp. 1862-7	4 X	Do	4	10
	an'y, July	80 85 98	90 Sacramento 86 S.Fr'cisco,7 00 Do. 10	,10 p.e.	p.ct. cp. 1862-7	X M	Do	ab. 6	10

Sil Priosoffkare

5 45

75

----

72% 54 883× 76% 58% 24% 10 16%

8%

113 X

END. er et. 116 108 104

# By HEWSON & HOLMES. For the week ending September 1, 1858,

\$17,000 Ohlo and Mississippi, 7 per ct. 2d Mortg. Constr20
6 000 Little Miami, 6 per ct. 1st Mort
5,000 Cov. & Lex., 7 per cent. 2d Mort45
10,000 Cov. and Lex , 7 per cent. 3d Mortg 30
3,000 Cin , Ham. & Dayt., 7 per ct. 2d Mortg
5,000 Indiana Central, 10 per cent. 2d Morty.
2,000 Columbus, Piqua & Indiana, guarantied by Clev,
1,000 Indianap. & Cin., 2nd Mort. 7 per ct
1,500 Columbus & Xenia, 7 per cent. Dividena, due in

107.6		STOCKS,
112 8	bare	s Little Miami77 to 78
50	64	Columbus and Xenia
100	46	Indianapolis & Cincinnati
		not he wishing about a to polyment only has
		By KIRK & CHEEVER.

FOR the week	r enam	g Neple	moer 1, 1858	A PERMIT
		orlong	Living at	Per cent.
Limeines content	B03	IDS.	Jan Beiting	and Interes
Little Miami, 1st Mort.				6881
Covington and Lexingto	on, lat l	Mortga	70	6860
Do. do.		do.		
Do. do.	2d	do.		
Do. do.	3.1	do.		. 7s 36
Ohio & Miss., E D., Co	onstruct			7020
Cinc., Ham, and Dayto	n, lat h	fortgag		7887
Do. do.		do.		. 7870
Indianap, & Cincinnat	i. do.	do.		7868
a thin the later was an			Jean bergi	male and
Cincinnati Wantitan		OKS.	74-1-12	21.00
Cincinnati, Hamilton	E Dayto	·		47
Columbus and Xenia.				74
Dayton & western				
Indianapons & Cincin	nau	*****		46
Little Miami	ulam	21.00		090 000
Ohio and Mississippi (	E D)			and her made
Ohio and Mississippi (	E. D.).	******		444444

#### Dubuque and Pacific Railroad.

Dubuque and Pacific Railroad.

At a meeting of the creditors and bondholders of the Dubuque and Pacific Railroad Company, represented by bonds and claims to the amount of one million and seventy-five thousand dollars, held by previous notice at No. 44 Exchange Place, New York, September 2, 1858, Abraham S. Hewitt was chosen Chairman, and J. O. Heyworth was appointed Secretary. After free discussion, it was Resolved, That in view of the embarrassed condition of the finances of the Dubuque and Pacific Railroad Company, its inability to pay the interest on its bonds or liquidate its floating debt, we, the bondholders and creditors of said road, represented at this meeting, having considered the plea set forth in the circular recently issued by the Board of Directors, sanctioned by the Trustees of said road, and submitted to all parties interested, do, after mature deliberation, recommend its unanimous adoption upon the condition that the Board of Directors of said Company pass a resolution that should all the creditors and bondholders accept the proposition submitted by said Board of Directors, that the stock issued in exchange for the mortgage bonds and floating debt be a preferred stock, bearing 7 per cent, interest per annum, secured upon the net earnings of the road from Dubuque to Manchester.

Resolved, That upon the condition in the first buque to Manchester.

buque to Manchester.

Resolved, That upon the condition in the first resolution being complied with by the Board of Directors of said Company, we earnestly urge upon all the creditors and bondholders not represented at this meeting the acceptance of the proposition.

ABRAHAM S. HEWITT, Chairman.

J. O. HEYWORTH, Secretary.

Admiralty Survey of the St. Lawrence.

We learn that H. M. (hired) surveying schooner Gulnare, Commander Orlebar, R.N., arrived in ourport yesterday, in tow of the steamer Napoleon III., and is now at anchor at the foot of the Rapids. We understand that Commander Orlebar and the officers under his command will at once commence a revisal of the plan of this harbor, and insert all the alterations made since the survey of Captain (now Admiral) Bayfield in 1834. The surveying party now in our harbor, consists of Commander Orlebar, Dr. Stratton and Messrs. Clifton and De Brisay, R.N., assistant surveyors. It will be remembered that Admiral Bayfield paid Montreal a visit in the Gulnare 12 years ago, to complete some chronometric measurements. After a service of unprecedented length and unexampled usefulaess and merit as a surveyor, that officer within the last two years has been advanced to the rank of Admi-

ral, and on his earnest recommendation Commander Orlebar, his senior assistant for more than 20 years, has been appointed to succeed him. During the early part of this season the Gulnare has been employed on the southeast coast of Cape Breton, surveying Louisburg Harbor, and the coast adja-cent.—Montreal Herald, Aug. 27.

We have received from Messrs. WILEY & HALSTED, of 851 Broadway, the July numbers of the Builder-an illustrated weekly journal, issued in London, and furnished by them for \$6 per year. It is a most valuable periodical, chiefly devoted to the useful sciences of engineering and architecture, and also treating of a great variety of topics, in a highly interesting manner. The numbers for each month are bound together, and make a handsome and well-filled volume of information serviceable to every architect and builder. Messrs. W. & H. are also agents for the Practical Mechanics' Journal.

Baltimore and Potomac Railroad.

On 2nd inst, the Commissioners appointed under the Maryland act incorporating the Baltimore and Potamac Railroad Company met at Upper Marl-bora'. The chair was taken by John S. Sellman, Esq., of Anne Arundel County, and John W. Jenkins, Esq., of Charles County, acted as Secretary The other commissioners present were Edward J Plowden, of St. Mary's; Francis Thompson, of Charles; Walter W. W. Bowie, Wm. K. Barker, Thos. F. Bowie, Wm. Pinkney Brooke, and Charles C. Hill, Esq., all of Prince George's County. After arranging the terms on which the traveling agent (Robert Bowie, Esq.,) should be remunerated for procuring the preliminary subscription of \$50,000, necessary to the formation and existence of the "Company," the meeting was addressed by Edwin Robinson, Esq., President of the Richmond and Fredericksburg road, in a speech which appears to have been highly acceptable to all present. Mr. R. declared himself warmly in favor of the proposed railroad, and stated that, in his judgment, it could be built for the minimum cost of railroad construction. He described it as likely to do an immense business in the transportation of produce, now compelled to pass a difficult and perilous ocean route. In point of paying qualities he asserted that this road, of less than seventy miles in length, was the most promising he knew of, and that he was persuaded that English capitalists, if they could have the opportunity, would leap to pay a million of dollars for the privilege of building and working it. He also made the important declaration of his opinion that his company could become responsi-ble for such an amount of capital stock as would complete the road from Upper Marlboro' to its terminus on the Potomac, opposite Aquia creek. Mr. Robinson was followed by Col. Sellman, Col. Walter W. W. Bowie, and Daniel Clarke, Esq., all of whom expatiated on the advantages that would accrue to the section of country through which the road would pass, and redeem that part of Maryland from much unmerited detraction. We derive the foregoing from the Upper Marlboro' Planter's

#### Albany and Susquehanna Railroad.

At a recent meeting of the Board of Directors,

the following resolution was adopted:

Resolved, That the road be put under contract from East Worcester to Oneonta, to be completed at the same time now contemplated from East Worcester; and that the President be requested to proceed at once to execute contracts for the struction of the road from Albany to East Worcester, with such restrictions and conditions as the Executive Committee shall deem prudent and ne-cessary with reference to the means of the Company; and that such progress be made at the tunnel section as may secure an early completion of the road, and that the chief engineer be directed to prepare such section for contract at as early a day as practicable. PAMERICAN RAILROAD JOURNAL, Galena and Chicago Union Railroad Company for

(including map), \$5 per annum.
ADVERTISING per line per annum, \$1.50.
RAILROAD MAP OF THE UNITED STATES, AND CANADAS, showing all the RAILROADS, in operation, progress and projected. Price, on Rollers, \$3; Pocket edition, by mail, pre-paid, \$1. Over 420 distinct lines, comprising more than 26,000 miles of npleted road, upwards of 1,500 miles in progress and 12,000 in contemplation, are laid down upon it-making a al of nearly 40,000 miles of Railroad in operation, progress or projected in the United States. These lines are distinctly and correctly laid down. It is also a County Map, showing the Counties, as well as the States, through which each road passes. Every city or town of any considerable importance, upon the line of each road is also given, thus making it useful to the traveler, as well as the engineer and financier. A copy of the Pocket edition of this map we are now sending free of postage, to each of our subscribers, upon receipt of remittances from them in payment of their subscriptions up to, and including, the year 1858. JOHNSON'S ROUTES TO THE PACIFIC,

ENGINEER'S FIELD BOOK .-- By C. S. CROSS

C. E., (free by mail,) \$1. (See Advertisement,)
LYON'S TABLE'S, for finding the cubical contents of excavation and embankment for Railroads, Turnpike Roads and Canals, calculated for bases from 1 to 50 feet, and for every variety of ground and side slopes.—By M. E. LYONS, Price, in separate sheets, 25c. each; or the whole (24 sheets) hands omely bound in cloth for \$7.50. (See Advertisement.)

Please address JNO. H. SCHULTZ & Co., AMERICAN RAILROAD JOURNAL, Office, 9 Spruce st., New York.

. Our European subscribers will be supplied with the Map, upon remitting to our Agents, Messrs. ALGAR & STREET. No. 11 Clements Lane, Lombard street, London-who also have them for sale.

#### American Railroad Journal.

Saturday, September 11, 1858.

Railroad Earnings.

The receipts and expenses of the Michigan Southern and Northern Indiana railroad, for the month of August, and for same month last year. as per Auditor's statement (partly estimated), are: Total receipts in 1857 ...... \$181,306 55

20.	1000			202,301	
Increas	e in earnin	gs		\$21,095	18
Vouchers issued Do.				158,052 85,509	
Decrease in	se in exper	ses	••••	\$72,542 21.095	77 18

Making a gain in net earnings over August, 1857 .... \$93,637 95

The receipts of the Little Miami railroad, for August, were \$113,533 against about \$96,000 for the corresponding month last year.

The receipts of the Illinois Central Railroad, for

Itagass, word.	
First week \$81,14	4 37
Second week 88,97	0 13
Third week 61,20	8 59
Fourth week 65,11	6 91

Total for the month .....\$196,500 00 The earnings of the Chicago, Burlington and

Quincy Railroad Company, for August, were:-Mail and Miscellaneous..... 1,518 07

\$104,587 05 Operating expenses ..... 60,000 00

The official statement of the earnings of the

the month of Angust is as follows:

	- 12	1857.	1858.	Decrease.
	Freight	109,402 93	\$66,341 99	\$48,060 94
	Passengers	57,542 60	44,482 44	13,110 16
j	Mails, etc	5,519 52	4,500 00	1,019 52

Total .. \$172,465 05 \$115,274 43 \$57,190 62 Corrected earnings for July, \$157,285 38.

The official report of the receipts of the Toledo, Wabash and Western railroad for August, is as follows :-

Freight Mail, etc													90,399	79
													12,341 75,866	

Increase this month......\$36,475 39 The earnings of the New York and New Haven

Railroad for August, 1858, were \$72,720 52, against \$96,984 54 in August of last year.

#### Taw's Lubricating Grease.

We invite attention to the advertisement of Messrs. TAW & BEERS, of No. 18 South Water St., Philadelphia, manufacturers of this celebrated grease for railroad cars and heavy machinery. It has been in use upwards of ten years. Many of the roads now supplied by them have used it regularly for that time, at an estimated saving of from 25 to 50 per cent. There are at the present time upwards of forty railroad companies using it exclusively for their cars, beside a number of coal operators, miners, machinists, etc. The price paid for greasing oils used on car journals, is from 75 to 80 cents pergallon, and sometimes higher. This grease can be purchased at 5 cents per pound-or 40 cents per gallon-the grease running about 8 lbs. to the gallon. The consistency of this grease remains the same both in winter and summer; it will neither freeze nor melt; never gums or heats -always keeping the journals cool and clean. The manufacturers are prepared to substantiate everything set forth in their advertisement by certificates from gentlemen of undoubted judgment at the head of some of the best managed railroads in the country. They are also dealers in sperm, whale and elephant oils, adamantine car and other candles. Address Messrs. TAW & BEERS, No. 18 South Water Street, Philadelphia, Penn.

#### Accidents on American Railroads.

The lack of any systematic means of ascertaining the number and cause of accidents upon our railroads, aside from the increased recklessness which it fosters, renders it almost impossible to state definitely the amount and nature of these accidents. We occasionally see what purport to be statements of such accidents, but they are wholly unreliable. Since the early part of June, we have kept a list of such accidents as we have found recorded in our exchanges, and the result is much worse than we anticipated. In these three months, we have accounts of accidents resulting in the death of 54 persons, and the injury of 146 more. Of these, 14 of those killed were passengers, and the great majority of others were persons improperly walking on the track. Four passengers were killed by getting on or off the cars while in motion.

The following table will show in detail the date and character of the accidents, the roads on which they occurred, etc., etc.

Nor	Alle	Hev	Chi	PIO	Cin	Ball	Hou	In.	Bas	N. C	Sec	Lon	Nev	Eva	Nev		N. N.	9 7	(B)	No.
Northern (N. Y.)	Alleghany Valley	lew York Central .	Chic., Alton & St. Louis	Old Colony	Cinc., Wilm. & Zanesv.	altimore and Ohio	Housatonic	Laf. & Indiana	Bast Tenn. & Virginia	N. Orleans & Jackson	Second Avenue	Long Island	New York & Erie	Evansv. & Crawfordsv	New York & Erie		Name of Road.			
			ouis		VS				ia	D				3V			Kill-	No.		
. 00	I Ca	:			. Br	1	1 Th	. Cu	Re	. Co			6 B1	. Ra	. Re		11.		FR	
Collision with freight tr. N.Y. Central. 5	Cars thrown off track				Bridge broke down		Thrown off by cows	Culvert broke down 8	Ran against a cow	Collision			Breaking of rail	Ran off track Not given	Road washed away. Rail settled 1		Cause.		FROM CAUSES BEYOND THEIR CONTROL.	ACCIDENTS TO PASSENGERS
ral. 5	22	:				•	14	:	1	1			42	ot given.	1	ed.	Injur-	No.	BOL.	S TO PA
Sept.	Sept.	Aug.														Accide	of	Date		DARKO
		0.	0.		81.	1.	1.	9.	0.	6	1.	26.	0	7.	12	t.				ERO.
:	:	jud	-	1	:						1	_	:	:		d.	111	No.		
		Do. do	Do. do	Getting on cars after starting							Fell from cars drunk				*** **** **** **** **** **** ****	ed.	Cause. Injur-	No.	ROM THRIB OWN MISCONDUCT.	
:	1	-	jud	-			)-al										ill			TOTA
ACC	22		:	:			14 5										ju		T	L. a
Nam Erie Blac N. O E.T. Vt. ( Lehi Belv Laf. O. &	k & & delight M	R'n V	R	Ro Fe Co Ra Le Br Co Cu	ad application ile	w fro age ed	asin from air	Cathe canst	d or	e. aw	gin	7	J. J	and all all all all all all all all all al	office len ellen y 3 y 1 y 2 y 2 y 2	te f		Killed.		
W'm Ell C.W Ill. C W'st Conn Chan Balt Roci	er .M	ira Z. Ias R'r	s.l	Pel Ru Dro Wa L'ô	l o ove lk	of tove	bre he er er	in oss on	ar tu tr	nn rac acl	el k k	nk	.A.A.A.A	ul; ug ug ug ug	g. 1 g. 1 g. 2	1. 8. 7. 21.	i i	1 1 1 1 1 1 1		1

42 79 66

87 48 89 ven 52,

St.,

ted

It

y of

reg-

g of

sent

g it

coal

paid

1 75 Chis -or it 8

ase ; it eats ean.

iate

cer-

ent

ads

rm,

her

. 18

ain-

our

1889 e to

ac-

be

olly

ave

reuch

ths,

the

ore. and

op-

ere

on. ate

ich

0. & Miss Do Aug. 14.	2	7	1000
K'y Cent. Knocked off top of	100	212	ĕ
car by bridge Aug. 11.	1	**	D
East. Mass. Fell off hand car Aug. 24.		1	ľ
La Crosse. Unknown Aug. 21.	1		D
N'nCentr Axle broke Aug. 24.		1	Ľ
Penn'a Run over on track Aug. 8.	1		ľ
Bost. & L Run over Aug. 15.	1		ľ
Bost.&M Walking on track Aug. 12.	1		Г
A.& St.L. Fell from hand car Aug. 8.	1		ı
Milw.& M.Drove across track Aug. 26.	1		I.
R.&Dany. Stuck his head out of			П
car Aug. 25.	1		ı
Bost & L'l. Walking on track Aug. 31.	1	1	ı
Cl'v.&Erie.Thrown off track Aug. 27.		12	ı
Ch. & R.I., Crossing track front			ı
of trainAug. 27.	2	2	I
Sulliv.N.H. Walking on track Aug. 28.	ī		I
Cape Cod DoAug. 30.	i	**	I
Hudson R On the track Sept. 2.	2		۱
Hudson R. On the track Sept. 2.		• •	ı
Hud. & B Do Sept. 2.	2		l
North.N.Y. Do Sept. 3.	1		ı
Hudson R Collision, two freight	1		ı
trainsSept. 7.	3	1	ı
Long Isl'd . Caught betw'n cars . Sept. 6.	1		
At this rate, the whole number of person	s ki	lled	ı
on the railroads of the United States du	ring	ше	1

#### year, will amount to 216; number injured, 584. Detroit and Milwaukee Railsoad.

We learn that the last rail has been laid on this road, thus making complete a connection between Detroit and Mill Point, on Lake Michigan. The first through train passed over the road on Wednesday. The length of the road is 185 miles.

#### Business of Western Roads.

The earnings of the Western roads for the month of August, thus far reported, show a decided improvement in the last half of the month. The offi cial report of the Illinois Central gives \$196,500 against \$147,027.68 in July, and \$221,893.82 in August, 1857. The Toledo, Wabash and Western will exceed \$100,000, and the Michigan Southern will show a very fair increase for the month over the same period of 1857. The Rock Island will foot up between \$85,000 and \$90,000, of which about two-thirds was earned in the last half of the month; and the Galena also, we understand, will show a corresponding improvement in the third and fourth weeks .- Cincinnati Commercial.

### New Engines.

The Virginia and Tennessee Company has lately procured a splendid new passenger engine, from the manufactory of Nor s of Philadelphia, called the "St.Nazaire." It is one of the most beautiful we have ever seen. She made her first trip up the road on Saturday last and came down on Mon-

day night.
We understand that three other new engines have been ordered—to be called, respectively, "Chesapeake," "El Paso," and San Francisco." The large and increasing business of the road is creating a steady demand for more motive power. The names of the new engines, which have been ordered, are significant of the future relations and connections of the road.—Lynchburg Virginian.

#### South-Western (Tenn.) Railroad.

At a meeting of the stockholders of this Company, held at Clarksville on the 13th ult., the following gentlemen were elected Directors for the ensuing year: Thomas Maybury, P. H. Maybury, H. H. Harrison, B. J. Hill, S. B. Sparlock, G. M. Smart, W. Britton and John Smith, of Warren; H. Bosson, J. C. Officer, W. P. Goodbar and J. W. Simpsen, of White; H. Denton, of Putnam; and P. M. Armstrong and A. Cullom, of Overton.

#### The Watertown Railroad.

The watertown Railroad.

The iron is laid beyond the Madison road, but trains do not run farther west yet than to the Waterloo road. The Company is pushing westward with the road, and will probably get as far as Chase's, 10 miles west of this place, this season. where we learn the first station west of Columbus is to be,—Columbus Journal.

#### White Mountains Railroad.

The "White Mountains Railroad," by a decree of the Supreme Court of New Hampshire, will be sold for the benefit of bondholders at Bath, on November 8d, to the highest bidder. The depots and fixtures of every kind are included in the sale. The road extends from Wells River to Littleton twenty miles.

#### Muscogee Railroad.

The following is a statement showing the operations of this road for the last year ending July 31, 1858; also balance sheet and general account of Treasurer.

	earnings from all sources have been-	
From	transportation\$87,412 5	Y
- 66	passengers 49,944 6	3
66	mails 7,650 0	K
11	car earnings 2 289 2	M

	147,296 47
Expenses same period are for— Transportation\$52,189 10 Repairs of road and bridges 31,626 06	a it that
Repairs of road and bridges 31,626 06	83,815 16
Balance net earnings	

	From which have been paid-	\$95,098 8
	the control of the co	ति विकासीतिकारी केल
ı	One year's interest on \$249,-	
	000 7 per cent. bonds \$17,430	00
	000 7 per cent. bonds\$17,430 Dividends on preferr'd stock 8,377	50
	Do. guarantied do. 4,800	00
	Dividend No. 8 on general stock 22,430	00
	Decom 111111111111111111111111111111111111	40 000 0

		-
Leaving a balance of	\$47,061	39
Which is invested as follows:-	Total Autom	1

-	Treating a paramos or	
0	TI MICE IS INTODUCE BES TORIOTIS!	
a	in montgomery and west	
n	Point R. R. Stock and	
n	Ronda #17 600 0	0
r	Mobile & Girard R. R. Stock 3,200 0	0
11	Mobile & Girard R. R. Stock 3,200 0 Negro man, and Construc-	
44	tion account over Canital	
e	stock 17,192 0	5
11	Difference between floating	
d	debt in favor of the Com-	
	pany 7,651 8	34

\$47,061 39 Material on hand, paid out for earnings of road, sufficient to make good all doubtful debts, and leave Profit and Loss account as it stands above.

The receipts from all sources have fallen off, as compared with the receipts of 1857, \$30,512 01, whilst the expenses have been diminished for the same period, \$29,573 79, showing a decrease in net profits of \$998 22.

The decrease in receipts may be attributed, in a great degree, to the general derangement of the finances of the country during the early part of the cotton season.

The Directors have economized every branch of expenditures consistent with the interest of the stockholders.

In the last report attention was called to the importance of a closer connection with the Opelika Branch road; also with the Mobile and Girard railroad, and Barnesville and Thomaston roads; all of which the Directors have had under consideration. The last session of the Legislature passed an act, authorizing the connections at Columbus, on terms to be agreed on, and satisfactory to the city of Columbus. The city has given its consent, but on terms the Directors are unable to comply with at present. The terms proposed by the city are, that this Company shall have the privilege of making a connection with the Opelika

oad provided it pay to the city of Columbus \$2,000 for the first year after the connection is made, and \$3,000 for every year thereafter, until this company shall connect with the Mobile and Girard railroad. To make the Opelika connection will cost, according to actual survey and estimates \$11,458 50 for double track, and for single track, \$6,958 50; a sum within the reach of this Company. To make the connection with the Mobile and Girard railroad it will require, according to the estimate of experienced gentlemen, \$100,000; a sum entirely out of the reach of this Company. The Directors, however, have resolved to build the upper or Opelika connection, provided the city will modify its terms so as to bring it within the ability of this Company,

Upon the subject of amalgamation with the South-western railroad, as suggested in last Report, it was unanimously

Resolved, That in view of the present depressed state of railroad affairs generally, this Board thinks it impolitic to touch the subject of amalgamation until the latter part of the present year, when another crop will have been gathered.

The road and rolling stock is in good working condition, and quite sufficient for a large increase of business should it offer the present year. There will be required for next summer's repairs, about one mile of new rail, which is believed can be obtained without increasing expenditures or reducing earnings, by an exchange of old rail and scrap.

#### Iron Bridges.

(From the London Quarterly Review, July, 1858.) (Concluded from p. 572.)

The next great step in advance was the application of iron under its most perfect form-of wrought-iron plates, in bowstring, tubular, and box-girders, capable of bearing the heaviest railway trains at the highest speeds. The first, and, up to this time, the most complete, specimen of the simple tubular bridge, is the Britannia Bridge, constructed by Mr. Robert Stephenson across the Menai Straits, which we have already so fully de-scribed,\* that it is not necessary for us to enter upon any further description of that masterly -the result of laborious calculation, founded on painstaking experiment, combined with eminent constructive genius and high moral and intellectual courage. Although the Britannia Bridge represented the most scientific distribution of material which could be devised at the date of its construction, it has since been improved upon by the same engineer in the Victoria Bridge, now in course of construction across the river St. Lawrence, near

The Victoria Bridge is, without exception, the greatest work of the kind in the world. For gigantic proportions and vast length and strength, there is nothing to compare with it in ancient or modern times. The entire bridge, with its approaches, is only about sixty yards short of two iles. It is five times longer than the Britannia across the Menai Straits, seven and a half times longer than Waterloo Bridge, and more than ten times longer than the new Chelsea Bridge across

The Victoria has not less than twenty-four spans of 242 feet each, and one great central span—it-self an immense bridge—of 330 feet. The road is carried within iron tubes 60 feet above the level of the St. Lawrence, which runs beneath at a speed of about ten miles an hour, and in winter brings down the ice of some two thousand miles of lake and upper rivers, with their numerous tributaries. The weight of iron in the tubes will be upwards of ten thousand tons, supported on massive stone piers which contain some six, some eight thousand

ons each of solid masonry. So gigantic a work, involving so heavy an ex-

penditure, has not been projected without suffi-cient cause. The Grand Trunk Railway of Canada one of the greatest national enterprises ever entered on-is upwards of 1,100 miles in length, opening up a vast extent of fertile territory for the purpose of future immigration, and, by connecting the settled provinces of Western Canada with the seaboard States of the American Union, calculated to afford full scope for the developmen of the industrial resources of that magnificent colony. Without the Victoria Bridge the system of communication would have been manifestly incomplete. The extensive series of Canadian railways on the north side of the St. Lawrence, terminating opposite Montreal, would, for all pur-poses of through traffic, be virtually sealed up during the six months of the year that the St Lawrence is closed against navigation by the ice; and the Grand Trunk system must necessarily have remained to a great extent nugatory, in consequence of the province being cut off from the coast, to which the commerce of Canada naturally tends.

The particular kind of structure to be adopted formed the subject of considerable preliminary discussion. Even after the design of a tubular bridge had been adopted, and the piers were commenced, the plan was made the subject of severe criticism, on the ground of its alleged excessive cost. It therefore became necessary for Mr. Stephenson to vindicate the propriety of his design in a report to the directors of the railway, in which he satisfactorily proved that as respects strength, efficiency and economy, with a view to permanency, the plan of the Victoria Bridge is unimpeachable. Various modes were proposed for spanning the St. Lawrence. The suspension bridge, such as that over the Niagara, was found inapplicable for several reasons, but chiefly because of its defective rigidity, which greatly limits the speed and weight of trains, and consequently the amount of traffic which can be passed over such a bridge. Thus, taking the length of the Victoria Bridge into account, it was found that not more than 20 trains could pass within the 24 hours, a number insufficient for the accommodation of the anticipated traffic. To introduce such an amount of material into the suspension bridge as would supply increased rigidity, would only be approximating to the original beam, and neutralizing any advantages in point of cheapness which might be derivable from this form of structure, without securing the essential stiffness and strength. Iron arches were also considered inapplicable, because of the large headway required for the passage of the ice in winter, and the necessity which existed for keeping the springing of the arches clear of the water line. This would have involved the raising of the entire road, and a largely increased expenditure on the upper The question was therefore reduced to the consideration of the kind of horizontal beam

or girder to be employed.

Horizontal girders are of three kinds. The Tubular is constructed of riveted rectangular Where the span is large, the road passes within the tube; where the span is comparatively small, the roadway is supported by two or more rectangular beams. Next there is the Lattice girder, borrowed from the loose rough timber bridges of the American engineers, con-sisting of a top and bottom flange connected by a number of flat iron bars, riveted across each other at a certain angle, the roadway resting on the top, or being suspended at the bottom between the lattice on either side. One of the best known speci-mens of this bridge is the fine work erected by Sir John Macneil on the line of the Dublin and Drogheda Railway, over the river Boyne near the town of Drogheda; its centre span being of 264 feet. Bridges on the same construction are now extensively manufactured in this country for crossing rivers in India, and are specially designed with a view to their easy transport and erection. The Trellis or Warren girder is a modification of the same plan, consisting of a top and bottom flange, with a connecting web of diagonal flat bars, form-ing a complete system of triangulation—hence the

name of "Triangular girder," by which it is ge erally known. The merit of this form consists erany anown. The merit of this folial consists in its comparative rigidity, strength, lightness, and economy of material. These bridges are also extensively employed in spanning the broad rivers of India. One of the best specimens in this country is the Crumlin viaduct, 200 feet high at one point, which spans the river and valley of Ebbw near the village of Crumlin in South Wales. The viaduct is about a third of a mile long, divided into two parts by a ridge of hills which runs through the centre of the valley—each part forming a separate viaduct, the one of seven equal spans of 150 feet, the other of three spans of the same diameter. This bridge has been very skillfully designed and constructed by Mr. T. W. Kennard, and, by reason of its great dimensions and novel arrangements, is entitled to be regarded as one of the most remarkable engineering works of the

day.
"In calculating the strength of these different classes of girders," Mr. Stephenson observes, "one ruling principle appertains, and is common to all of them. Primarily and essentially, the ultimate strength is considered to exist in the top and bottom-the former being exposed to a compression force by the action of the load, and the latter to a force of tension; therefore, whatever be the class or denomination of the girders, they must all be alike in amount of effective material in these members, if their spans and depths are the same, and they have to sustain the same amount of load. Hence, the question of comparative merit amongst the different classes of construction of beams or girders, is really parrowed to the method of connecting the top and bottom webs, so called." the tubular system the connection is effected by continuous boiler plates riveted together; and in the lattice and trellis bridges by flat iron bars, more or less numerous, forming a series of struts and ties. Those engineers who advocate the employment of the latter form of construction, set forth as its principal advantage the saving of maerial which is effected by employing bars instead of iron plates; whereas Mr. Stephenson and his followers urge, that in point of economy the boiler plate side is equal to the bars, whilst in point of effective strength and rigidity it is decidedly superior. To show the comparative economy of material, he contrasts the lattice girder bridge over the river Trent, on the Great Northern Railway near Newark, with the tubes of the Victoria Bridge which are now in course of construction. In the former case, where the span is 2404 feet, and the bridge 13 feet wide, the weight, including bearings, is 292 tons; in the latter, where the span is 242 feet, the width of the tube 16 feet, the weight, including barings, is 275 tons, showing a balance in favor of the Victoria Tube of 17 tons. The comparison between the Newark Dyke Bridge and the Tubular Bridge over the river Aire is equally favorable to the latter; and no one can have traveled over the Great Northern line to York without noting that as respects rigidity under the passing train, the Tubular Bridge is decidedly superior. It is ascertained that the deflection caused by a passing load is considerably greater in the former case; and Mr. Stephenson is also of opinion that the sides of all trellis or lattice girders are useless, except for the purpose of connecting the top and hottom, and keeping them in their position. They depend on their connection with the top and bottom web for their own support; and since they could not sustain their shape, but would collapse immediately on their being disconnected from their top and bottom members, it is evident that they add to the strain upon them, and consequently to that extent reduce the ultimate strength of the beams. "I admit," he adds, "that there is no formula for valuing the solid sides for strains, and that at present we only ascribe to them the value or use of connecting the top and bottom; yet we are aware that, from their continuity and solidity, they are of value to resist horizontal and many other strains, independently of the top and hottom, by which they add very much to the stiffness of the beam; and the fact of their containing more material than is nece

<sup>\*</sup> Quarterly Review, vol. lxxxv.

to comect the top and bottom webs, has by no means been fairly established." Another important advantage of the Tubular Bridge over the tant advantage of the Tubular Bridge over the Trellis or Lattice structure, as pointed out by Mr. Brunel and Mr. Edwin Clarke, consists in its greater safety in event of a train running off the line,—a contingency which has more than once occurred on a tubular bridge, without detriment, whereas in event of such an accident occurring on a Trellis or Lattice bridge, it must, Mr. Clarke says, "infallibly be destroyed." Where the proposed bridge is of the unusual length of a mile and posed bridge is of the unusual length of a mile and a quarter, it is obvious that this consideration must have had no small weight with the Directors, who eventually decided upon proceeding with the Tub-ular Bridge according to Mr. Stephenson's original design.

nd ex-ers try

ria-

nto igh

de-

rd.

vel

the

ent

one

sion to a

lass

be

and oad.

ngst

or or

In

l in

ars.

ruts

set

ma-

oiler

t of sny of idge

tail-

ion.

ding

the

ng a

idge

can

ork

the

edly

ater o of

irdect heir with ort;

eonand that e to and

From the first projection of the Victoria Bridge, the difficulties of executing such a work across a wide river, down which an avalance of ice rushes to the sea every spring, were pronounced almost insurmountable by those best acquainted with the locality. The ice of two thousand miles of inland lakes and upper rivers, besides their tributariesmany of which exceed the Thames in length, depth and volume of water—is then poured down stream, and, in the neighborhood of Montreal especially, it is often piled up to the height of from forty to fifty feet, placing the surrounding country under water, and doing severe damage to the massive stone buildings along the noble front of the city. To resist so prodigious a pressure, it was necessary that the piers of the proposed bridge should be of the most solid and massive descrip should be of the most solid and massive descrip-tion. Their foundations are placed in the solid rock; for none of the artificial methods of ob-taining foundations, suggested by some critical engineers for cheapness' sake, were found practi-cable in this case. Where the force exercised against the piers was likely to be so great, it was felt that timber ice-breakers, timber or cast-iron piling, or even rubble-work, would have proved but temporary expedients. The two centre-piers tre eighteen feet wide, and the remaining twenty-two piers fifteen feet. To arrest and break the ice, an inclined plane, composed of great blocks of stone, was added to the up-river side of each pier—each block weighing from seven to ten tons, and the whole firmly clamped together with iron

To convey some idea of the immense force which these piers are required to resist, we quote a brief account received from Mr. Alexander Ross, the principal engineer superintending the works, of the scene which occurred at the breaking up of the ice in March last, when the pressure of the pack was unusually severe. It must be premised that fourteen out of the twenty-four piers were then finished, together with the formidable abutments and approaches to the bridge. The ice in the river began to show signs of weakness on the 29th of March, but it was not until the 31st that a general movement became observable, which continued for an hour, when it suddenly stopped, and the water rose rapidly. On the fol-lowing day, at noon, a grand movement com-menced; the waters rose about four feet in two mened; the waters rose about four feet in two minutes, up to a level with many of the Montreal streets. The fields of ice at the same time were suddenly elevated to an incredible height; and so overwhelming were they in appearance, that crowds of the townspeople, who had assembled on the quays to watch the progress of the flood, ran for their lives. This movement lasted about twenty minutes, during which the jammed ice destroyed minutes, during which the jammed ice destroyed several portions of the quay-wall, grinding the hardest blocks to atoms. The embanked approaches to the Victoria Bridge had tremendous adopted by Mylne in getting in the foundations of blackfriars Bridge; but both have proved defective, and the failure in each case was greatly not be force of the blow immediately on its coming in contact with the cutwaters. Sometimes thick sheets of ice were seen to rise up and rear on end against the piers, but by the force of the flowing tide, and the consequent "scour" of the stream, and in a moment after were out of sight. For the two next days the river was still but effectual plan of the confer-dam—that is, each closure was benefit to pass in and out of the cylinder, and afterwards with the masonry of the cylinder, and afterwards with the waster held over the points at which it was proposed to pass in and out of the cylinder, and soury of the cylinder, and afterwards with the masonry of the foundations. To enable the working minutes, up to a level with many of the Montreal streets. The fields of ice at the same time were

suddenly to give way, and by the following day the river was flowing clear and as smooth as a millpond, nothing of winter remaining except the masses of bordage ice which were strewn along the shores of the stream. On examination of the piers of the bridge it was found that they had admirably resisted the tremendous pressure; and though the timber "cribwork" erected to facilitate the placing of floating pontoons to form the dams, was found considerably disturbed, and in some in many cases where great solidity of foundation. the placing of floating pontoons to form the dams, was found considerably disturbed and in some places seriously damaged, the piers, with the exception of one or two heavy stone blocks which were still unfinished, escaped uninjured. One heavy block of many tons' weight was carried to a considerable distance, and must have been torn out of its place by sheer force, as several of the broken fragments were left in the pier. We may add that already two of the tubes have been placed in situ upon the piers, and that this magnificent work is expected to be completed and opened for traffic by the beginning of 1860.

We have not left ourselves space to more than allude to Mr. Brunel's admirable combination of the principles of the tubular and suspension bridges in the fine structures recently erected by him at Chepstow and Saltash. The latter bridge is of even greater length than the Britannia. Including the land openings it is not less than 2,200 feet long, having nineteen openings, two of which are of the immense span of 455 feet each. These two main openings are spanned by longitudinal beams, suspended from arched tubes of wrought-iron plates by long-linked tension chains, rendered rigid by vertical struts and diagonal bracing. They are both works of great merit, deservedly admired by engineers.

The tubular bridge system has even been extended to Egypt, the land of old Cheops and the Pyramids. The principal feature of the two extensive bridges on the Egyptian railway recently completed is, that the road is carried upon the top of the tubes instead of in the interior. The longer of the two is over the Damietta branch of the Nile near Benha. It contains eight spans or openings of 80 feet each, and two centre spans, which are formed by one of the largest iron swing bridges ever constructed—the total length of the swing beam being 157 feet, and leaving a clear water-way on either side of the central pier of 60 feet. The foundations of this bridge offer another exemplification of the extended use of iron in structures of this sort, for they consist of wrought-iron cylinders filled in with concrete, and sunk by means of a remarkable pneumatic process which we will

briefly describe. The securing of firm foundations for piers has always been a point of the greatest importance with bridge-builders. When the stream could not be diverted, and the bed laid bare for the purpose of getting in the foundations—as is supposed to have been done in the case of the old London Bridge-the early builders adopted the expedient of throwing loose rubble stones into the river until they were sufficiently high and solid to build upon They were then surrounded with piles to prevent the foundations washing away. Labelye, in con-structing Westminster Bridge, employed the method invented by French engineers of getting

in many cases where great solidity of foundation in river-beds is required.

Iron began to be introduced for the purpose of securing foundations, in cases where the superstructure was of a lighter character, or where sands, or mud, or bog, had to be crossed. Hence Dr. Pott's invention of cylinder piles, which consisted in employing its collection of the purpose of sisted in employing iron cylinders, placed in a position for sinking, the lower end being open, and then exhausting them by means of a pneumatic apparatus. The contents of the tube, whether of air or fluid, were thus sucked out, and the tube was forced downwards by simple atmospheric pressure. A succession of piles might be placed over that first sunk, by means of flanges, or other joints, so that piles of any length could be em-ployed. In the case of Mr. Brunlees' disc piles, upon which the Morecombe Bay iron viaducts are erected, the reverse process is employed, and the air, water, and sand, instead of being drawn out of the cylinders by exhaustion, are forced out during a slight rotating motion of the piles, which grad-urlly descend to their proper depth. By one or other of these methods, it would even be possible to obtain foundations for a lighthouse on so treacherous a basis as the Goodwin Sands, whilst for crossing the sandy, muddy beds of broad Indian rivers, the invention is calculated to be of great value. Mitchell's screw-pile is another favorite method of employing iron in securing firm foundations in treacherous ground, the pile being so con-structed as to be capable of being screwed down to almost any depth. But the most remarkable application of iron for the purpose of securing oundations in difficult ground at great depth, is that which has been recently adopted by Mr. Hughes, and was first employed by him in constructing the piers of the new bridge over the Medway, at Rochester. It was proposed to build piers of cast-iron cylinders, each seven feet in dispute to the construction of the constructi piers of cast-iron cylinders, each seven feet in di-ameter; and it was originally intended to force them to a sufficient depth in the bed of the river (which indicated soft clay, sand, and gravel) by means of Dr. Pott's pneumatic process, which had succeeded in similar cases. But it was discov-ered, soon after the works commenced, that the ered, soon after the works commenced, that the bed of the stream was encumbered in many places by the ruins of an ancient bridge, which history records as having been taken down some five hun-dred years ago. On examination the bottom was found to be a compact mass of Kentish rag stone, through which it was impossible to force the cylinders by atmospheric pressure. It was then determined to reverse the process, and to give to each cylindrical pile the character of a diving-bell, keeping the interior clear of water by forcing air into it by means of a double-acting pump driven by a steam-engine, so that the workmen should be enabled to proceed with the excavations in the in-

cess, and the compression of the air within the in-terior of the cylinder, in which the men were at work, perhaps some twenty feet below water, was work, perhaps some twenty feet below water, was strictly preserved. Strong glass lenses were fitted into the cylinder cover, and in the chambers of the air-locks, to give light to the workmen, but when at a considerable depth candles were constantly used. As the excavation proceeded, the cylinder descended, until the pile was gradually sunk to the desired fdepth. The piles of the Rochester Bridge were thus carried down thirty feet into the river's hed before the building commenced in river's bed before the building commenced; in Mr. Stephenson's bridge across the Nile, they are sunk thirty-three feet through soil of a peculiarly sifting character; but in Mr. Brunel's Saltash Bridge they were sunk not less than ninety feet, a depth of foundation that would have been con-sidered fabulous but a few years ago. In the lat-ter case, an exterior cylinder was also employed, which was afterwards withdrawn when the foundations had been secured. It is worthy of remark that the cost of getting in foundations by this process has been very considerably reduced—the total cost of completing those of the Rochester Bridge to four feet above the water line being effected at less than one-half of the estimated cost of coffer-dams alone. The effect of the great atmospheric pressure upon the workmen employed within the cylinder, is sometimes serious. When within the cylinder, is sometimes serious. When the pile has descended to a considerable depth, possible to work for only a comparatively short time.

On entering the cylinder, great pain is felt in the ears, blood sometimes runs from the nose and ears, while the breathing is considerably affected: persons of weak lungs are found quite unfitted for the work. The men who persevere are said to experience an immense sharpening of the appetite, and consume increased quantities of animal food
—doubtless caused by the greater waste produced by the increased quantity of oxygen in-

The last great project in iron bridge building that we have heard of—and a project it is likely for some time to remain—is a tubular bridge across the Straits of Dover. A French engineer, M. Thome de Gamond, having projected a tunnel un-der the sea between England and France, which he states has received the favorable consideration of the French government, Mr. Boyd, not to be outdone in daring, projects his bridge over the sea from Shakespeare's Cliff to Cape Grinez. Mr. Boyd proposes a bridge of iron tubes of 500 feet span, laid upon 190 towers 300 feet high, to be constructed at an estimated cost of £30,000,000 sterling. Apart from the question of practicability, we greatly doubt the utility of such a bridge. The entire number of persons annually traveling between England and all the ports of France, does not amount to 250,000 persons, or less than four days' traffic over London bridge. Seventeen mil-lions of persons annually pass through the railway stations on the south of the Thames, the greater number of whom have to cross the bridges to and from the north side of the river. We are ready to recognize the necessity of an iron railway bridge across the Thames to a convenient station on the north bank—a measure which would, more than any other project, relieve the "block" of the bridges, and the crowded thoroughfares leading to and from the City. But there is no such pressure of traffic across the Channel, the existing means being more than sufficient for its accommodation. To this we must add that there is considerable force in the observation of a celebrated English wit to a Frenchman on the subject of Anglo-French relations. "The best thing that I know of between England and France—is the sea.

#### NOTICE TO CAR BUILDERS.

WANTED to contract for a train of Passenger Cars, consisting of one Saggage Car, one Accommodation do, as Gentlemen's Coach and one Ladies' Coach.

Place and specifications to be seen at my office,
WILLIAM MAHONE,
Chief Eng'r and Sup't,
Norfolk and P. R. R. Co.
MORPOLE, Va., August 21, 1855.

LAND & ROAD MORTGAGE

BOND S.

SEALED proposals will be received by this Company, at their office, No. 48 City Exchange, Boston, up to the lat day of October next, at 1 o'clock P. M., for a loan of five nundred thousand dollars (\$500,000.) in money, payable as follows:

red thousand dolars (\$500,000,) in money, payable as follows:

10—Ten per cent, or the 5th day of October next, which
first instalment the Company will relain without issuing Bonds therefor urtil the last instalment is paid.

20—Twenty per cent, on the 1st day of November next.

10—Ten per cent, on the 1st day of December next.

10—Ten per cent, on the 1st day of February, 1859.

10—Ten per cent on the 1st day of March, 1859.

10—Ten per cent on the 1st day of April, 1859.

10—Ten per cent, on the 1st day of March, 1859.

10—Ten per cent, on the 1st day of May, 1859.

For each instalment except the first, Bonds will be issued, with proper adjustment of interest, when payments are made or payments may be made earlier by notifying the Treasurer of the Company the cof, at the time when the first payment is

The Construction Bonds now offered are in sums of \$500 and \$1,000 each, to be dated Oct. 1, 1858, having twenty-five The Construction Bonds now offered are in sums of \$500 and \$1,000 each, to be dated Oct. 1, 1858, having twenty-five years to run, bearing 8 per cent, interest, payable semi-aunually in New York, being a part of an issue of one million of dollars which may be made, and secured by a first mortgage and trust deed to John M. Forbes, Henry P. Kidder, and John N. A. Griswold, Trustees of 40 miles of railroad and its appurtenances, and more than 200 000 acres of valuable land in Iowa, cov. ring also the first section of 35 miles of road from Burlington to Skunk River, which section is subject to liens amounting to \$550,000. The proceeds of the lands constitute a suking fund for the purchase and extingulament of these Bonds; and by the terms of said mortgage and trust deed they are receivable at par in payment for any of said lands. This issue will secure the completion of the road to Ultumwa, in the Des Moines Valley, (a central point for the busine. So Southern and Western Iowa, early next year.

Further information may be obtained at the office of the Company or from its late report.

Other things being equa', a pre'erence will be given to the smaller blds made by our steckholders, who are especially invited to share in the loan, the Company receiving to themselves the right to consider the responsibility of the parties making the proposals, as well as the rate offered. With these thidder.

[Signed] EDWARD L. BAKER. President.

J. N. DENISON, Treasurer.

BOSTON, September 6, 1858.

3137.

#### EUROPEAN & NORTH AMERICAN RAILWAY. Notice to Contractors.

SEALED tenders will be received at this office until Friday. Sth October next, at noon, for the grading, masoury and bridging of that portion of the E. & N. A. Railway between Sussex and Salisbury, a distance of Twenty-eight miles.

The line will be laid out in seven sections of about four miles each for which separate tenders will be received.

Materials and plant of all kinds to be furnished by the con-

Tenders must be accompanied with names of responsible arties willing to become security for the performance of the

ontract.

The Commissioners do not bind themselves to accept the

west tender.

Plans, specifications, and terms of tender may be seen at The Engineer's office on and after 20th Sept-mber.
The line is finally located and now ready for the examinaon of centractors.
Contractors in the United States may refer to WM. PARKER,

RAILWAY COMMISSIONERS' OFFICE, St. Johns, N. B., Sept. 2, 1858.

CHAS. A. FISHER, Late of the firm of FISHER, DENNY & CO., No. 18 Exchange Place.

STOCKS and Bonds bought and sold on commission. Loan negotiated.

#### THE ROUND OAK IRON WORKS, STAFFORDSHIRE, ENGLAND.

Lord WARD, Proprietor.

MANUFACTURE RAILS, BOILER PLATES, SHEETS, HOOPS and BARS, of every variety of pattern.

NORRIS & BROTHER,
Agents for the United States,
12 South Charles Street,
BALTIMORE.

### RAILROAD IRON.

WELSH or Staffordshire make, delivered on board at an English port or at a port in the United States, NORRIS & BROTHER,

### IMPROVED PATENT METALLIC OIL.

J. & W. W. CUMBERLAND, And under the personal Superintendence of the Invent

THE NEW YORK CUMBERLAND METALLIC OIL

WORKS.

FOOT OF 24th STREET, EAST RIVER. OFFICE, 205 BROADWAY. NEW YORK.

WE respectfully call the attention of those interested in the running of

#### RAILROADS. STEAMSHIPS.

### Machine Shops, Factories,

and Machinery of all kinds, to the valuable qualities of our OL

1. It is entirely free from Gum, cools heated journals quicker than water, and keeps them cool by its superior anti-friction properties.

2. By its use less motive power is required than in using any other oil yet known. It will move machinery with very perceptibly less motive power than

3. The same quantity will last at least 33% per cent. longer than Sperm, or any other Oil, and the quality is always strictly uniform in its season. We make Summer and Winter Oil.

4. Having largely increased the capacity of our works, we have been enabled to reduce the prices below those of last year; and it is our intention to keep it at all times below the price of Sperm.

The prejudice existing against Oils has very properly grown up, and we are fully aware of the deceptions which have been and still are practised by unscrupulous persons; but we are prepared to substantiate all the foregoing statements relative to the superiority of our Oils, at OUR OFFICE, 205 BROADWAY,

by large numbers of certificates of the best managed lines of Railroads, Steamships, Machine Shops, & Factories to any other. Most of the certificates being greatly superior to any other. Most of the certificates being of **prominent**Companies, it is probable that more or less of them will be known to all. We have also the **MEDALS** and **DI-PLOMAS** awarded to us by the **AMERICAN IN-STITUTE**.

We will at all times be ready to refund the money if the facts above stated are not satisfactorily substan-tiated on trial of the Oil; and we only solicit from those who have never used it very small trial orders. We also make

### SUPERIOR GREASE. TALLOW, AND

### BURNING OIL

The BURNING OIL will burn in any lamp that will burn Sperm, lasting longer, and burning without smell or smoke.

We manufacture a

### OIL EXPRESSLY FOR SEWING MACHINES.

GREATLY SUPERIOR TO ANY OTHER, AND WITH LESS SMELL.

Several have attempted to imitate our Oil, calling it "METALLIC OIL," as well as giving it a similar appearance; and we would CAUTION buyers against them, and advise them to see that our brand-

"NEW YORK CUMBERLAND METAL-LIC OIL WORKS, FOOT OF EAST 24th ST."

with the names of the inventors and kind of Oil, is upon every package, however small.

N. Y. C. METALLIC OIL WORKS, 205 BROADWAY, NEW YORK.

### TAW & BEERS,

Sperm, Whale and Elephant Oils, Adamantine Car and other Candles.

AND MANUFACTURERS OF TAW'S LUBRICATING

4,

IL

jour-

ipe-

an in

with

han

We

grown e been ve are tate-

Y,

tories

I DI-

e who

E,

HER.

milar

LAT-

EAST

upon

RKS, Y,

FOR RAILROAD CARS AND HEAVY MACHINERY.

THIS celebrated GREASE has been in use upwards of Ten years; and is in the opinion of FORTY RAIL-ROAD COMPANIES, whom we regularly supply,

The Cheapest and Best Lubricator in use. Parties ordering, will please state the kind of box, or description of machinery.

TAW & BEERS. 18 SOUTH WATER ST., Philadelphia.

### RAILROAD IRON AND

EQUIPMENTS. T.A. HOWLAND & CO.

54 WILLIAM ST., HAYING the advantage of the most favorable arrangements with both Foreign and American Manufacturers are prepared to supply Railroad Companies with RON and ROLLING STOCK on the most favorable terms, and also to Negotiate their Securities.

THE ROUGH AND READY

POLITING MILITS
OF DANVILLE, PA.,
ARE prepared to fill orders for RALLS of the best quality
at the market price.
T. A. HOWLAND & CO., Agents,
54 William st., NEW YORK.

### RAILROAD IRON. THE RENSSELAER IRON COMPANY,

TROY, N. Y.,

OFFER Rails of their own manufacture deliverable as may be desired by purchasers.

OLD RAILS received in exchange for new, or for re-manufacturing,
JOHN A. GRISWOLD, Agent,
TROY, N. Y.

New York Agency:
BUSSING, CROCKER & DODGE,
32 Cliff St.

#### RAILROAD IRON AT ELMIRA, N. Y.

THE subscribers have American Railroad Iron for sale as above; also Welsh Iron in New York and other markets.
FABER, PERKINS & CO.,
Blovers, 69 Wall st.
6m33

New Yorl, August 10th.

#### FOR SALE.

THE undersigned offer for sale the following valuable property in the city of Alexandria, Virginia.

An IRON FOUNDRY, with steam power, cupolas, cranes, fasts, and all the fixtures requisite for a first class business, also an extensive assortment of patterns for Railroad Machinery, Mid Gearlog, Steam Engines, etc., etc.

The foundry building is of brick, fire-proof, well-lighted and has a clear floor 100 ft. 260 ft. Also, the square of ground on which the above is located, fronting on the Orange & Alexandria Kaiiroad and containing about 34,600 square ft. of ground.

The position is a very favorable one for the transaction of an extensive foundry business and well worthy the attention of parties disposed to engage in that business.

Also for sale or lease their extensive LOCOMOTIVE, CAR BUILDING AND MACHINE WORKS in Alexandria, situated on the River Potomac, comprising Real State, Bui'dings and Machinery for the transaction of a large machine business of any kind.

The location is considered a most desirable one, being immediately on deep navigable water and in a city from which three important railroads diverge, one of which connects with a line of roads terminating at New Orleans, with diverging lines from the South and South-west.

The subscribers will sell or lease this property or they will work it in connection with parties who are disposed to invest capital to purchase an interest with them. It is not deemed necessary to give an extended description of the property, as parties disposed to negotiate will probably examine for themselves.

For term, etc., apply to EMITH & PERKINS,

for terms, etc., apply to BMITH & PERKINS,

### RAILWAY DIRECTORY

1858,

CONTAINING a correct list of all the Officers and Directors of the RAILROADS IN THE UNITED STATES AND CANADAS; together with their Length, Capital, Cost, Debt. Earnings, etc., etc.; comilled from official Reports by J. W. Low, Jr.

Price in Paper covers, 50 cents each.

Orders addressed to

J. W. LOW, JR., No. 9 South William st, New York.

BEERS' ELASTIC IRON RAILWAY, EMBEDDED TO THE COPING RAIL.



Saving Life and Property from Accident.

Saving Life and Property from Accident.

TERE is an indestructible railroad resting upon foundations below the frost and eatirely independent of its effects, with a rolid diron coping rail maintained in perfect Line by the continuous support of the foundation rail, and between which last, and the coping rail's interposed a packing of vulcanized gutta percha; saving one-third on motive power, and the entire breakage of wheels and asles, which is only a simple result of the jumping and pounding motion communicated to the train, by the undulations in the Tral, which are always increasing, under the pressure of such train; also more than three-fourths of the current cost of relays, and repairs; while the rolling stock will last twice as long, with a large reduction on first cost; making a total yearly saving in current expense of from \$1,500 to \$2,000 per mile, which is equivalent to an additional value of some \$25 000 on every mile of road as compared with semi-wooden structures of nearly equal cost.

Average cost of the iron railway, exc'us've of grading, \$11,-000 per mile, and worth, at any time during 100 years, \$5,500 or old iron.

#### BEERS'

#### CAST-IRON ENDLESS RAIL, FOR CITY RAILROAD.

This track is laid without tie, string piece, holt, or spike; the joints are rendered perfect by an upright iron wedge spice, will wear twenty years without repairs, and then be worth half the first cost as OLD IRON.

Expense per mile, when laid, from \$5,000 to \$6,000.

To examine a section of either track, or for descriptive drawings with circular, address the undersigned at Baoox-

S. A BEERS, Civil Engineer, Inventor and Patentee for U. S. and Europe,

# PROPOSALS FOR LEASING

THE CHESTER VALLEY RAILROAD. PROPOSALS will be received at the office of the Chester Valvey Railroad Company,

No. 429 WALNUT ST., PHILADELPHIA,

No. 429 WALNUT ST., PHILADELPHIA, until the Thirtieth day of September next, for furnishing Stock and Machinery, running the road and keeping it in good order and condition for a period of not less than five years from the thirty-first day of December, A. D. 1858.

Specifications can be seen at the office.

The Chester Valley Railroad begins at Bridgeport, Pennsylvania, on the Schuylkill River, near Norristown, (a point 6 miles from Philadelphia) where it connects with the Philadelphia and Radding Railroad on the North bank, and the Philadelphia and Radding Railroad on the South bank. It is twenty-one miles in length, and runs for the greater part of that length in a line nearly straight (having but few curves) to the Erminus at Downingtown, Chester county, where it connects with the Pennsylvania Railroad. With the exception of a light grade near Bridgeport, the Road is perfectly level.

The great Chester Valley which it traverses is unsurpassed in the abundance and fertility of its crops and farming produce, limestone quarriss and iron ore beds.—The Road is in good order, and doing an excellent Passenger and Freight business, which is steadily increasing.

All proposals to be addressed to Benyamin Rush, Esq. President of the Chester Valley Railroad Company, Philadelphia.

CHAS. O'NEILL, Secretary.

REMOVAL.

W. D. STARLING, Metal Broker and Rail Inspector, from Lawrence Pountaey Lane, to the Vestry House, Lawrence, Pountaey Hill, Lordon, 1867.

G. M. TRACY & CO., STOCKS, BONDS, ETC. LOANS NEGOTIATED. No. 49 EXCHANGE PLACE,

NEW YORK.

PETERS, CAMPBELL & CO., BANKERS AND DEALERS IN DOMESTIC EXCHANGE AND BANK NOTES,

No. 50 WALL STREET. NEW YORK.

SPECIAL ATTENTION GIVEN TO

#### COLLECTIONS IN ALL PARTS OF THE UNITED STATES.

PETERS, SPENCE & CO., Lynchburg, Va.
D. T. C. PETERS,
N. H. CAMPBELL,
DEXTER OTEY.

JAS. T. SOUTER, Esq., Pres't B'k Republic, & New York Otty
American Exchange Bank,
Banks and Bankers, Richmond and Lynchburg, Va.

# KETCHAM & WILLIAMS, STOCK BROKERS,

No. 1 HANOVER STREET. Near Wall. NEW YORK Stocks and Bonds bought and sold on Commission, and Louns negotiated.

### DUNCAN, SHERMAN & CO.,

BANKERS, Corner Pine and Nassau Sts., NEW YORK,

CIRCULAR NOTES AND LETTERS OF CREDIT, For travelers, available in all the principal cities of the w ALSO, MERCANTILE CREDITS, For use in EUROPE, CHINA, etc.

SIMEON DRAPER, Auctioneer.

# By SIMEON DRAPER, OFFICE, No. 36 PINE ST., NEW YORK. REGULAR AUCTION SALES AT THE MERCHANTS' EXCHANGE EVERY DAY.

STOCKS and BONDS bought and sold at private sale. Sale every day at 12,4 o'clock. See Catalogue.

CHAS. B. HOFFMAN. MALGOLM CAMPBELL,

HOFFMAN, CAMPBELL & CO., BANKERS AND DEALERS IN BULLION & SPECIE, No. 45 Wall st., (Phenix Bank Building).

No. 45 Wall st., (
SOVEREIGNS,
DOUBLOONS,
XX FRANCS,
XX GUILDERS,
X THALERS,
DOLLARS,
and all kinds of
GOLD and SILVER,

Bought and Sold.

GOLD and SILVER, )

BAR GOLD and COIN for SHIPPERS and MELTERS
reished. 3m23

### H MEIGS, Jr. & SMITH, BANKERS and BROKERS.

89 WILLIAM STREET, (FIRST BUILDING BELOW WALL STREET,)
STOCKS and BONDS Bought and Sold on Commission,
MERCANTILE PAPER and LOANS Negotiated.

INTEREST ALLOWED ON DEPOSITS. HENRY MEIGS, Jr. WM. ALEX. SMITH. NEW YORK, May 11, 1858.

### PATENT GRATE BARS,

SALAMANDER GRATE BAR COMPANY.

THESE Bars are warranted superior to any other kind in use for economy, in dura bility and saving of fuel. They are adopted in most of the extensive Manufactories, Steamers and Raliroad Companies, w. have given testimonials of their superiority.

Orders promptly executed. Send dimensions to the office of the Company, No. 30 Pearl st., N. YORK.

# TWO 26 TON FREIGHT ENGINES.

4f 8% in. Gauge. 5 ft. and 4 ft. 5 fn. Wheels.

Oylindors, 18x24 157 Fines, 1%x11 ft. 7 in.

HESE Engines cost \$5,000 each, and have been built.

about three years, have new Oranks and Tires, and are in od order. For sale by

WILLIAMS & PAGE,

3m30 44 Water St., Bosyon, Mass.

TUBULAR RAIL



PER YARD 50130

Railroad Managers will be interested by an examination of the "TUBU-LAR RAIL," patented in Europe and America by Symmus & Jes-Hiss, Covington, Ky. These rails have decided advantages over any rail hitherto made, among them the fol-lowing:—

The "Tubular Rail" of 50 lbs, per yard has greater strength and elastically, with the same outside surface as solid rails of 60 lbs, per yard.

In density is greater,
The welding neares perfect, and
Its durability superior.
Unlike other new forms of rail, it can be put down on the
me chairs, and with the same fastenings, used with common

The arrangements to manufacture are such that these rails an be furnished of any American or Foreign make.

Reference is made to the officers of all the railroads in the icinity of Cincinnati.

Additional particulars and circulars may be had by address-age

E. W. STEPHENS,

Cincinnati, Ohlo.

### RAILROAD IRON & CHAIRS THE LACKAWANNA IRON AND COAL CO.

Are now prepared with increased facilities to contract for RAILS AND CHAIRS

At their Works at SCRANTON, PENNA.

Address J. H. SCRANTON J. H. SURANTON, Pres't, at SCRAWTON, or, THEO. STURGES, Treas., 46 Exchange Place, NEW YORK.

### RAH ROAD IRON. WOOD, MORRELL & CO.,

Having leased the extensive Works of the

Cambria Iron Company, Situated at Johnstown, Cambria Co., PENNA.,

And purchased all their real estate, RE ow prepared to execute at short notice, orders for RALS of any required pattern or weight, on the most

Philadelphia Office, North Penna R. R. Building, No. 407 Walnut st.

### IRON BOILER FLUES.

Lap-Welded Boiler Flues.

11/4 to 7 inches outside diameter, cut to definite length, 2 to 20 feet as required.

Wrought Iron Welded Tubes. From 16 to 5 inches bore, with Screw and Socket Connections. T's, L's, Stops, Valves, Flanges,

> &c., &c. MANUPACTURED AND FOR SALE BY

MORRIS, TASKER & CO.,

PASCAL IRON WORKS.

Established 1821. Warehouse-209 South Third st., PHILADELPHIA

STEPHEN MORRIS, THOS. T. TABLER, JR.

CHAS. WHEELER, JR., STEPBEN P. M. TASKER.

MORRIS & JONES & CO., IRON MERCHANTS. MARKET AND SIXTEENTH STREETS.

PHILADELPHIA.

IRON AND STEEL

BOILER PLATE, CAR AXLES, BOILER RIVETS, RAILROAD IRON, OUT NAILS and SPIKES, PIG IRON, etc.
Having the selling agency of a number of the Rolling Mills, unnecess and Forges in this State, orders for any description of at 16, 1886.

MAOTOTHE YAWARAS

RAILROAD IRON MILL COMPANY,

CLEVELAND, OHIO,

MANUFACTURERS EXCLUSIVELY OF RAILROAD IRON.

THIS is a new ROLLING MILL, having been working this line between Buffato and Chicago in re-rolling old Rails.

The capacity is Forty Tons per day. It is well situated for receiving old Rails, either by Bailroad or Lake.

Orders are now solicited

From Boads in other sections of the country; and work will be made with New Iron in the heads, if desired. Apply to

ALBERT G. SMITH.

President of the Incorporation

February, 1858.

### RAILROAD IRON.

The Crescent Manufacturing Company, WHEELING, VA.,

A RE now prepared to execute, at abort notice, orders for Rails of any required pattern and weight, and to re-roll old rain, on the most liberal terms Address N. WILKINSON, Sec'y, Stf Wheeling, Va.

### RAILROAD IRON.

CONTRACTS FOR RAILS, DELIVERED AT AN ENGLISH PORT, Or at a Port in United States,

WILL BE MADE BY THE UNDERSIGNED,
THEODORE DEHON,
10 Wail st., near Broadway, New York.
300 tons T rails on hand 54 to 57 ibs. per linear yard.

### RAILROAD IRON.

The undersigned, Agents for leading Manufacturers in STAFFORDSHIRE AND WALES. ARE PREPARED TO CONTRACT FOR DELIVERY On board ship at Liverpool, or Welsh port,

C. CONGREVE & SON, 18 Cliffat, N. Y.

### RAILROAD IRON.

The Undersigned, Agents for the Manufacturers, ARE PREPARED TO CONTRACT TO DELIVER Free on Board at Shipping Ports in England, or At Ports of Discharge in the United States, RAILS OF SUPERIOR QUALITY. And of Weight or Pattern as may be required.

VOSE, LIVINGSTON & CO., New York, Aug. 1, 1855 9 South William Street 9 South William Street.

RAILROAD IRON. The Subscribers, Agents for the Manufacturers,

ARE PREPARED TO CONTRACT FOR THE DELIVERY OF RAILROAD IRON AT ANY PORT in the United States or Canada, or at a shipping port in Wales.

WAINWRIGHT & TAPPAN, 29 Central Wharf. Boston, June, 1851.

# RAILROAD IRON AND COMMON BARS.

Sole Agents to Messrs. GUEST & CO.,

The Proprietors of the Dowlais Iron Works, Near Cardiff, South Wales,

A RE duly authorized to contract for the sale of their G. L. Railroad Iren, and Common Bars, on most advantageous

R. & J. MAKIN, 70 Broad st.

### Railroad Iron:

300 TONS WELSH RAILS, Eric pattern, 56 lbs. to the yard, in bond, or duto paid.

Also, RAILROAD SPIKES, LURRICATING OILS, METALS, and other RAILROAD MATSRIALS for sale by June 1 1858

METALS, MATSRIALS and Other RAILROAD MATSRIALS, and other RAILROAD MATSRIALS, for sale by June 1 1858

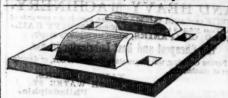
METALS, MAY YORK.

### NEW ENGLAND RAILROAD MUTUAL FIRE INSURANCE CO.

THIS Company, composed of Railroad Corporations, in sures on the Mutual principle, against loss by Fire, BUILDINGS, BRIDGES, ROLLING STOCK, and other property in which the members have an insurable interest.

DIRECTORS : S. Hooper,
Stephen Fairbunks,
Wm. A. Crocker,
Vm. Minot, Jr.,
L. M. Spelman,
Waldo Higginson

WALDO HIGGINSON, President. CHARLES G. HOBART, Secretary.



GENERAL COMMISSION MERCHANT,
Nos. 6 & 8 Broadway, and 8 Beaver St.

ORDERS received for all sizes MERCHANT, BAR and
RAILROAD IRON, AMERICAN and SCOTCH
PIG-IRON, SUPERIOR WROUGHT IRON RAILROAD
CHAIRS, SPIKES, CAR WHEELS, NAILS, ETC., ETC.

OFFICE, 8 BROADWAY Corner Beaver st., opposite the Bowling Green, NEW YORK.

sers, Cooper & Hewitt, sers, Wm. Oothout & Bro., sers, Marshall Lefferts & Bro. James L. Jackson, Esq.

### ST. LOUIS STEAM FORGE.



ROBERTSON & LOWE. COR. MAIN AND CEDAR STREETS, ST. LOUIS, MO.,

MANUFACTURE CAR AXLES.

LOCOMOTIVE FORGINGS.

STEAMBOAT SHAFTS, CRANKS, TOBACCO SCREWS, HAMMERED BAR IRON, .

AND EVERY VARIETY OF Forgings for Machinists' Use.

NOTICE TO

Presidents, Directors and Gen. Superintendents

OF RAILROADS.
WISH TO INTRODUCE MY NEW PATENT CAR BRAKE

which I claim to be the cheapest, strongest and most efficient of any now in use. AND WILL AT MY OWN COST THE BRAKE ON ANY CAR OF A COMPANY WHO WOULD DESIRE TO TEST ITS MERITS. All those interested are invited to call at 61 Chambers st., where the model and specifications are to be seen.

\*\*ADMONTHER GUE.\*\* J. D'HOMERGUE.

### AMERICAN COAL CO. GEORGE'S CREEK SEMI-BITUMINOUS COAL.

THIS Company is prepared to contract for the sale of their coal, delivered on board vessels at the depots at Baltimore, Georgetown and Alexandria, on the most favorable terms. The coal is from the George's Creek basin, entirely free from slate, and for steamers, locomotives and foundries is unsurpassed and unequalled in quality by any coal brought to this market, except that coming from the same basin.

The Company will procure vessels at the lowest rates, when desired, without charge.

Orders for quantities less than a cargo, will be filled at the yard of Ramball & Morrell, Jersey City, adjaining the Ounard Wharf.

Ounard Wharf.
Office, 50 Exchange Place.

W. TITUS, Sec'y.

#### VAN RIPER'S DINING SALOON. Nos. 34 and 34% Pine Street.

MERCHANTS and others doing business in the vicinity of the Custom House, should patronize this well conducted es-

Every care will be taken to give satisfaction to the most institutions, and the proprietor feels confident in his ability to please those of his friends and strangers who may favor him with a call.

THEODORE VAN RIPER, Propier.

### H. H. GOODMAN & CO. No. 7 WALL ST., NEW YORK,

Dealers in Railway, City, County, and State

BONDS,
RAILS, LOCOMOTIVES, &c.
We have on hand and for sale, of County Bonds—

Hardin County (Ky), 6 per cta. Davidson C'ty (Tenn.), 6 p.cta. Davidson C'ty (Tenn.), 6 p.cta. Iowa County (Wis.), 8 per cta. Mineral Point do. do. Also a variety of CITY, COUNTY, and RAILWAY SECURITIES in smaller lots. April 30th, 1856.

D

T,

K.

8,

ts

### RAILROAD SUPPLIES.

### WILLIAMS & PAGE, No. 44 Water, between Congress and Kilby Streets,

Boston, Mass. Iron Rails, Chairs, & Spikes, FREIGHT AND COAL CARS,

(on hand or made at short notice,)

Wheels and Axles of all kinds, LOWMOOR, AMES, BOWLING, AND NASHUA TIRES,
IRON AND STEEL,
Of all kinds for Shops and Tracks.
Car Trimmings, Paints, Oil, Varnish, Oar and Switch
Locks, Ventilators, Lanterns, Head-Lights, Gauges, Rubber

Springs, Chairs, Hose and Belting, Ash, Pine and other Timr, and ALL MATERIALS USED in Equipment and Repairs of d's, Engines and Cars, at lowest prices

THOS. S. WILLIAMS, PH Late Sup't Boston & Me. R. R. Late I REFERENCES. PHILIP S. PAGE. Late PAGE, ALDEN & Co.

JAMES HAYWARD, President PHELPS, DODGE & Co., N.Y. Boston and Maine R. R. Cooper, Hewitt & Co., do. Cooper, Hewitt & Co., N.Y. Cooper, Hewitt & Co., do. Cooper, Hewitt & Co.,

### OLD STAND. RAILROAD AND CAR FINDINGS.

### A. BRIDGES & CO.,

SUCCESSORS TO BRIDGES & BRO.,

WILL continue the Railroad and Car Furnishing business, and deal in Locomotive and Hand Lanterns, Enamelled Read Linings, Brass and Silver Trimmings, Cotton Duck for Car Covers, Portable Forges and Jack Screws, Boits, Nuts and Washers, Ship and Bridge Bolts, and Iron Forgings of almost every description, etc., etc., etc., at the old Stand, Covers for the purchase of goods on commission, aside from our regular business, respectfully solicited.

ALBERT BRIDGES, Of the late firm of Bandess & Bro. JOEL C. LANE.

P.W. Rhinelander, James A. Boorman, Edwin A. Post RHINELANDER, BOORMAN & CO.,

RAILWAY AGENTS

### COMMISSION MERCHANTS,

SUPPLY ALL MATERIAL AND ARTICLES USED IN TH CONSTRUCTION AND OPERATING OF RAILWAYS BANK OF COMMERCE BUILDING, NEW YORK.

BEFER TO

John A. Stevens, Esq., President Bank of Commerce.
Sam'l Sloan, Esq., President Hudson River Rathood Co.
James Boorman, Esq., Messrs, Stilman, Allen & Co.
Messrs, Ocoper & Hewitt, Messrs, Daucan, Sherman & Co.

### M. K. JESUP & CO.,

No. 44 EXCHANGE PLACE.

RAILWAY AGENTS AND

DOMMISSION MERCHANTS, DEALERS IN FOREIGN AND AMERICAN

### RAILROAD IRON.

HAVE FOR SALE ON COMMISSION LOCOMOTIVE ENGINES, WROUGHT AND CAST IRON CHAIRS,

### S. B. BOWLES. MANUFACTURER AND DEALER IN

# RAILROAD

No. 12 GOLD STREET,

Between PLATT and MAIDEN LANE,

NEW YORK.

### A. S. & A. G. WHITON 72 PINE ST., NEW YORK,

DEALERS IN

RAILROAD IRON CHAIRS AND SPIKES,

LOCOMOTIVES PASSENGER AND FREIGHT CARS.

MANUPACTURERS' AGENTS  $\mathbf{F}^{\mathrm{OR}}$  Seller's Iron Turn Tables, Dimplet's Patent Blower, Gardiner's Volute Car Springs and

RAILWAY SUPPLIES GENERALLY.

ALSO NEGOTIATORS OF SECURITIES.

### GEO. M. FREEMAN.

SUCCESSOR TO

### PRATT & FREEMAN,

PHILADELPHIA RAILWAY SUPPLY AGENCY No. 123 WALNUT STREET,. PHILADELPHIA.

Railroad Materials, Locomotive and Car Findings, MACHINERY AND MACHINISTS TOOLS,

MINERS' TOOLS, ETC.

WHITE AND YELLOW CAR GREASE, LOCOMOTIVE BRASS WORK, Baggage Checks, Barrows, etc., etc.,

RAILROAD LANTERNS, SIGNAL LIGHTS, STEAM GAUGES, COCKS AND WHISTLES, INDIA RUBBER HOSE PACKINGS, ETC. LANTERNS OF ALL DESCRIPTIONS

ENGINE, STATION, AND SIGNAL BELLS,
Superior Car Upholstery, etc. AGENCY OF THE KEROSENE OIL COMPANY. Orders solicited, promptly filled, and forwarded with despatch and care at the manufacturers' lowest prices.

### CINCINNATI.

### HEWSON & HOLMES

AUCTIONEERS AND STOCK BROKERS,

Have regular sales of Stocks, Bonds, and other Securities

EVERY

WEDNESDAY AND SATURDAY,

At 1 o'clock at the Merchant's Exchange,

AND IF REQUIRED,

SPECIAL SALES
ON MONDAY, TUESDAY, THURSDAY, AND FRIDAY.

OFFICES NOS. 83 and 85 Walnut street.
Where they offer at private sale
A CREAT VARIETY OF
State, County, City and Railroad HONDS and STOCKS.
BEGOTIATE
LOANS, NOTES, BILLS OF EXCHANGE,
ARD COLLEGE

DIVIDENDS, LEGACIES, DEBTS, &c.

BREERANDE-Ohio Life Insurance & Trust Company Bank

#### CINCINNATI STOCK EXCHANGE.

KIRK & CHEEVER,

Stock Brokers and Railroad Agents,

CINCINNATI, OHIO. Stocks, Bonds, &c., bought and sold on commission as at public suction at the Muzonanus Excusur

## FINAL SALE OF OTS

# KENTUCKY CITY!

On MONDAY, 27th day of

SEPTEMBER, 1858,
WILL commence the second and final Sale of Lots in the
growing and most interesting

### YOUNG CITY.

The Trustees in announcing this Sale, feet warranted in suring the public that at no point in the West can there be bound EQUAL OPPORTUNITIES for safe and profitable investment.

### KENTUCKY CITY

Is located on the east bank of the Mississippi, upon the seat high land, (or above overflow), to the mouth of the Obriver, and for all practical business purposes, is, and will follow the mouth of the Obio.

KENTUCKY CITY and COLUMBUS contains four thousand three hundred acres, laid off into lots, atreets, alleys, etc.; 500 acres in quarter and half lots; the remainder in one, two, four, ten, twenty, forty and sixty acre lots. It is from 4 to 210 feet above high water mark, and surrounded by

#### Healthy and Fertile Country,

Rapidly growing in wealth and population, with a salubrious climate, and generous, liberal, enlightened and refined society. There was wanted but one further feature to make this the most commanding point on the great "Pather of Waters." This was uninterrupted communication with the interior of the adiacent States, to accommodate internal commerce and facilitate the interchange of commodities. That want is now fully met by the established system of

#### RAILROADS

Which has fixed KENTUCKY CITY as the center of a net-work of Railroads stretching out and affording connections in all directions with the interior and with the cities and lakes of the North and East, and ramifying throughout the whole South and West.

That the public may not be led off by suspicious that this is a mere city on paper, we request you to enquire—to come and see for yourselves.

a mere city on paper, we request you to enquire—to come and see for yourselves.

See the MAP—Kentucky City is the northern terminus of the Great Mobile and Ohio Railroad—460 miles long. See also our railroad connection by Union City and along the Nashville and North western Railroad via Paris and Clinria-ville to Nashville, 170 miles. Also, by Kenton and along the Memphis and Ohio road to Memphis, about 160 miles. Also, via Jackson, Tenn., Holly Springs, Canton and Jackson, Miss, to New Orleans, 500 miles. Also, via Corinth, there along the Memphis and Charleston Railroad to Tuscumbia, Henseville, Chattanooga, Knoxville and the East, and with Adanta and Savannah, Georgin, Also, by the Futton and Texas Railroad via Little Rock, through Arkansas and Texas Railroad via Little Rock, through Arkansas and Texas to the Pacific Ocean. Pacific Ocean,
Also, by the Iron Mountain Railroad to St. Louis, 150 miles.
Also, by the

### STEAM FERRY PACKETS,

Plying to and fro with Cairo and the Illinois Central Ealeoad to Chicago and the whole North-west.

Intelligent, enterprising and practical men who will come and see and investigate in person, will be convinced that the extraordinary commercial advantages and facilities of Railiroad and Steam boat Transportation possessed by Kentucky City secures to this point requisites for manufacturing and commercial purposes, which must, of necessity, cause it specify to become the great intermediate city between the NORTH and the SOUTH, at which the productions and manufactures of each section will be concentrated for sale, or to be exchanged for those of the other.

The Hon. Post Master General, in a recent report, says: "No man can look at the map of this country without his way." The sale is to be made without reserve, and in good faith, and there will always be a reliable gentleman on the ground, whose pleasure and duty it will be to give all needful information, and answer all written or oral interrogatories. Then let no one permit himself to be led off by rumor, when the facts are so accessible to all.

THOMAS PROS

Monday, September 27th, 1858 nd continue until all the Lots are sold.

#### TERMS OF SALE.

Ten per cent, cash in hand, for the residue, a credit of and

BEN EDWARDS GREY,
E. I. BULLOCK,
W. H. H. TAYLOR,

FRANK JAY MCLEAN, Att'y in fact Kentucky City, Ky.

### THE ALBERT FREESTONE COMPANY

### **Buff-Colored Freestone**

W HIOH enters into a large number of the finest Buildings recently erected in New York, Baltimore, Philadelphia, Portland, Halitax, Norfolk, St. John, etc.
They also furnish the SAME STONE of a BROWN COLOR with a ROSE TINGE
Orders will be taken for any point on the Atlantic Seaboard or for Inland Oltica.

Directors: -John Travers, Charles E. Anderson, Joseph F. Wiler, Samuel P. Dipsmore, M. Dudley Bran, Groege E. Cook, William H. Duscan, Henry V. Pook JOHN TRAVERS, Req., Pres't; CHARLES E. ANDERSON sq., Vice Pres't; John Fowler, Esq., Treas'r; Samuer Dinsmore, Secretary.

Offices: 15 Nassav St., (Commonwealth Building.) N.York communications by Mail should be addressed to the Secretary Manager of the Quarries-CAPT. GEO. LANG, Harvey, Neu

"The great beauty of this stone commended it to our committee; the stone is universally admired,"—Pennsylvania R. R. Co "No sulphuret of iron in it."—Francis Alger, Esq., Boston. Average resisting power to the square inch 6,632 ba.—more by 8,110 ba. than any other Freestone in use.—Haffield's Tests.
"Is without grain or cleavage."—T. Burstall, Engineer,

"Is without grain or cleavage."—T. Burstall, Engineer, Birming ham, Eng. "Coming to be the favorite material."—N. Y. Times. "Coming to be the favorite material."—N. Y. Times. "Finest Freestone in N. America."—The late J. G. Percival. "Surfaces of this Freestone, for ages exposed to the weather, have perfectly withstood the action of water and frost."—Professor C. T. Jackson, Boston, Mass. "It has a color insurpassed, one of the neutral tints which harmonizes with everything in nature, and is equally pleasant to the eye in fair day or foul, and whether the building has a background of sky, water or foliage."—N. Y. Express. "It contains no scale of mica, no carbonate of lime."—F. Alser.

"It contains no scale of mics, no carbonate of lime,"—F. Alger.

"A grand building stone."—New York Evening Post.
"Beyond doubt the very best material we have ever seen in this country."—John Struthers, Philadelphia.
"Frost, snow and ice of the severest winters have no effect upon it."—John Whitelaes, Baltimore.

"Light, agreeable and cheerful color, and gives a pleasant aspect to our streets. Retains its uniformity of color."—Professor C T. Jackson, Boston, Mass.
"I greatly admire your beautiful Freestone, and only regret that the Building to which I have devoted so much of my time and means, was not built of it."—Peter Copper, Esq., N. York.

"Must hot be confrainded with any other stone from the British Provinces."— ompany's Circular.
"A monopoly of the very best building material in the world."—Professor J. L. Hayes Washington, D. C.

### WATERBURY BRASS AGENCY.

ALEX ANDERSON, AGENT.
52 BEEKMAN STREET, NEW YORK,
FOR THE SALE OF

THEET BRASS,

COPPER AND BRASS WIRE,

BRASS AND COPPER TUBING,

COPPER BYVETS AND BURS, ETC.

Manufactured at WATERBURY. Conn.

## PROSSER'S PATENT IRON BOILER TUBES.

SAFE FROM END TO END.

EVERY article necessary to DRILL THE TUBE-PLATES and to SET THE TUBES in the best manner.
Tube CLEANERS, Steel-Wire and Whalebone BRUSHES.
Tubes for ARTESIAN WELLS. Pump Shafts, Line Shafting, conveying Steam or Water, etc., etc. SCREWED TOGETHER, FLUSH ON BOTH SIDES, or WITH COUPLINGS either outside or inside; also EXPANDED INTO FLANGES.

#### PATENT SURFACE CONDENSER.

AGENTS FOR KRUPP'S CELEBRATED CAST-STEEL for SHAFTS, RAILWAY AXLES, TIRES, PLATER'S BOLLERS, RIFLE AND GUN BARRELS, CANNON, &c. THOMAS PROSSER & SON,

Railroad Iron.

700 TONS, afoat, or in stere, of "W. Crawshay's make. For sale by THEODORE DEHON,

10 Walist, near incodway.

#### Railroad Iron.

1,000 TONS Railroad Iron, weighing about 58 lba per yard, "Eris" pattern. of best quality Weish make, now ready for delivery, for sale by VOSE, LIVINGSTON & OO., suggest last, 1887.

### RICHARD B. COWLEY.

MANUFACTURING JEWELER,
3% Division st., 3rd floor, City of New York.
MASONIC, Sons of Temperance and Odd Follows Lodge
Jewels, from new patterns and dies, made to order and
constantly on band.
All orders promptly attended to.

#### RAILROADS AND STEAMBOATS.

FOR BOSTON and PROVIDENCE via NEWPORT and THALL RIVER.—The splendid and superior steamer METROPOLIS. Capt. Brown, leaves New York every TUESDAY, THURSDAY and SATURDAY, at 5 o'clock P.M., and the BAY STATE. Capt. Jewett, on MONDAY, WEDNESDAY and FRIDAY, at 5 o'clock P.M.; from Pler No. 3, N. R., near the Battery; both touching at Newport and Western State Control of the Contro

each way.

Hereafter no rooms will be regarded as secured to any applicant until the same shall have been paid for.

Preight to Boston is forwarded through with great dispatch

xoreas Freight Train.
WM. BORDEN, Agent, Nos. 70 and 71 West st.

### The REGULAR MAIL LINE

VIA STONINGTON, for BOSTON and PROVIDENCE
—Inland route—the shortest and most direct, carrying
the Eastern Mail.

The steamers PLYMOUTH ROCK, Capt. Joel Stone, and
C.VANDERBILT, Capt. W. H. Frazee, in connection with the
STONINGTON & PROVIDENCE and BOSTON & PROVIDENCE RAILROAD 4, leaving New York daily (Sundays
excepted) from Pier No. 2, North River, first wharf above
Battery Piace, at 60-clock P. M., and Stonington, at 84, P. M.;
or on the arrival of the mail train which leaves Boston at
5.30 P. M.

5.30 P. M.
The C. VANDERBILT, from New York Monday, Wednesday and Friday; from Stonington Tuesday, Thursday and Satur-

and Friday; from Stonington Tuesday, Lindsday, The PLYMOUTH ROUK, from New York Tuesday, Thursday and Saturday; from Stonington Monday, Wednesday and Friday.

Passengers proceed from Stonington per railroad to Providence and Boston in the Express Mail Train, reaching said places in advance of those by other routes, and in ample time for all the early mo ning lines connecting North and East Passengers that prefer it remain on board the steamer, enjoy a night's rest undisturbed, breakfast i desired, and leave Stonington in the 7.4. M. train for Providence and Boston.

A baggage master accompanies the steamer and train

ngton in the 7 a. M. train for Providence and Boston.

A baggage master accompanies the steamer and train through each way.

For passage, berths, state rooms or freight, apply on board the steamer or at the Freight Office, Pier No. 2 North Elver, or at the office No. 10 Battery Place.

## RAILROAD MAPS.

THE BEST "GUIDE" IN THE WORLD,

	- 2	OV	0.0.140	AT THIS OFFICE.	
Pric	e of Pock	et :	Edition,	by mail, pre-paid.	1.00
46	Mounted	on	Rollers	******************	3.00
44	44	66	- 66	Colored in Counties	5.00

#### RAILRUADS.

### NEW YORK & NEW HAVEN R. R.

SUMMER ARRANGEMENT, Commencing May 13, 1858.

Passenger station in New York, corner 27th st. and 4th av.;

Passenger station in New York, corner 27th st. and 4th av.; entrance on 27th st.

TRAINS LEAVE NEW YORK

For New Haven, 7, 8 a. m., [ex.]; 12 45, 3.45, 4.20 [ex.], and 5.30 F. m. For Bridgeport, 7, 8 a. m., [ex.], 12.45, 3.46, 4.20 [ex.], and 5.30 F. m. For Bridgeport, 7, 8 a. m., [ex.], 12.45, 3.46, 4.20 [ex.], and 5.30 F. m. For Norwaik, 7, 9 a. m.; 12.45, 3.46, 4.20 [ex.], 4.45, 5.30, 6.30 F. m. For Norwaik, 7, 9 a. m.; 12.45, 3.46, 4.20 [ex.], 4.45, 5.30, 6.30 F. m. For Port Chester and intermediate stations, 7, 9 a. m.; 12.45, 3.45, 4.20 [ex.], 4.45, 5.30, 6.30 F. m. For Port Chester and intermediate stations, 7, 9 a. m.; 12.45, 3.45, 4.20 [ex.], 4.50 For Boston, 8 a. m. [ex.], 4.20 F. m. [ex.]. For Connecticut River Ruliroad to Montreal, 8 a. m. [ex.], and 4.20 F. m. [ex.], to Northampton. For Oanal Railroad to Northampton, 8 a. m. [ex.], and 4.20 F. m. for Danbury and Norwaik Railroad, 8 a. m., 12.45 and 3.45 F. m. For Danbury and Norwaik Railroad, 7, 9 a. m., 4.20 F. m. JAMES H. HOYT, Sup't,

### NEW JERSEY RAILROAD

For Philadelphia and the South and West, VIA JERSEY CITY.

MAIL and Express Lines leave New York at 8 and 11 A.M., and 4 and 6 r. M.; fare \$3; 11 and 4 go to Kensington. Through Tickets sold for Cincianati (\$17 and \$18.50) and the West, and for Baltimore, Washington, Norfolk, etc., and through baggage checked to Washington in 8 A. M. and 6 r. M. trains.

W WOODRUFF, Assistant Sup't.

No baggage will be received for any train unless delived deceded afteen minutes in advance of the time of leav

### New York and Eric R. R.

On and after Monday, May 10, 1858, and until further notice
PASSENGER TRAINS
will leave Pier foot of Duane street
as follows, vis:— DUNKIBE EXPRESS, at 6 a. m. for Dunkirk and principal

DUNKINK EXPENSE, at 6 a. m. for Dunkirk and Principal intermediate stations.

MAIL TRAIN, at 8 a. m., for Dunkirk and Buffalo, and attermediate stations.

ROCKLAND PASSEMBER, at 8 p.m., from foot of Chamber t., via Piermont, for Suffern's and intermediate stations.

WAY PASSEMBER, at 4 p.m., for Newburgh, Middletows not intermediate stations.

WAY PASSENGER, at a p.m., for Newburgh, middletows and intermediate stations.

Night Express, at 5 p. m. for Dunkirk and Buffalo.

These Express Trains connect at Elmira, with the Elmira, Canandaigus and Niagars Falls Railroad, for Niagars Falls; at Binghamton with the Syracuse and Binghamton Railroad, for Syracuse; at Corning with Buffalo, Corning and New York Railroad, for Rochester; at Great Bend with Delawars, Lackyamans and Western Railroad, for Soranton; at Hornellaville with the Buffalo and New York City Railroad, for Buffalo; at Buffalo and Dunkirk with the Lake Shore Railroad or Cleveland, Clacincati, Toledo, Detroit Chicago, etc.

CHARLES MORAN, President.

#### HUDSON RIVER R. R.

PROM May 10th, 1858, Trains will leave Chambers street station as follows: Express Trains, 6 A. M., and 5 P. M.; Albany and Troy Passenger Train. 11 ½ A. M. and 10 P. M.; for Dobbs' Ferre, 6½ A. M. and 4 P. M.; for Tarrytown, 7 P. M.; for Sungh Sing 10 ½ A. M. and 3 P. M.; for Pough-eepsle, 8 A. M., 1 P. M.; for Pough eepsle, 8 A. M., 1 P. M.; for Pough eepsle, 9 A. M.; for Peekshill; Sing Sing, Tarrytown and Dobbs' Ferry Trains stop at the Way stations. Passengors taken at Chambers, Quani, Christopher and Thirty-first streets. Trains for New York leave Troy, at 4½ and 10 25 A. M., and 4½ and 9½ P. M.; and Albany, at 4½ and 10.85 A. M., and 405, 445 and 3½ P. M.; on Sundays, at 9½ P. M.

A. F. SMITH, Sup't.

### U. S. MAIL AND EXPRESS ROUTE DIRECT FOR

Iowa, Kansas and Nebraska.

# наана аваана - III мачан авааны на ма

CHICAGO, BURLINGTON & QUINCY RAILROAD.

THE ONLY DIRECT ROUTE FROM
CHICAGO TO AURORA, MENDOTA, PRINCETON
GALESBURG, QUINCY, BURLINGTON, ANT PARP
OF SOUTHERN OR CENTRAL 10 WA, KANSAS
OR NEBRASKA.

PASSENGER TRAINS leave the Central Depot, foot of South Water street, Calcago, daily as follows:-MORING EXPRESS.—Connecting at Mondota with Illinois Central Bailroad, north for Amboy, Diron, Galena and Dunleith, south for La Saile, Bloomington, Decatur, Springfield, Jacksonville, St. Louis, Cairo, &c.; at Galesburg with Northern Cross R.B. for Quincy, &c.; and at Burlington with Burlington and Missouri River B. R., and with Packets for points up and down the Mississippi river.

—Evenue Express.—Making same connections subove.

NO TRAIN SATURDAY EVENING.

BAGGAGE CHECKED THROUGH TO BURLINGTON and QUINCY.

THROUGH TICKETS can be procured at all the principal castern railroad offices and in Chicago at the Depot and at the Michigan Central R. B. office, corner of Lake and Dearborn streets, opposite the Tremont House,

SAM'L POWELL,

Gen. Ticket Agent.

C. G. HAMMOND,

Gen. Supt.

### Philadelphia, Wilmington & Baltimore Railroad.

UNITED STATES MAIL ROUTE TO THE SOUTH AND WEST.

### mpossis ada sa In mospiradatus In mospirad

Trains will leave the Southern and Western Station, corne troad and Prime streets, Philadelphia, at 8 30 am. 12 45, 3 a

•	FARE BY	TEROUGH TICKETS TO THE SOUTH.		
ı	From New Yo	Wilmington	15	60
1	do c	Norfolk	- 5	DU
	From Priadelphia	to Wilmington	14	00
	do do	Norfolk.	6	50
	do do	Petersburg		00
	do do	Richmond	- 8	00
1	FARE B	T THEOUGH TICKETS TO THE WEST.		٤.
1	From New York	to Cincinnati	17	90
ĕ	From New York	to Indianapolia	19	00
3	Own Dhiladalahi	to Olyalamet	16	00